BEACH IMPROVEMENTS

MILWAUKEE COUNTY - SOUTH SHORE PARK

2900 SOUTH SHORE DRIVE, MILWAUKEE, WI 53207

Milwaukee County Dept. of Administrative Services FACILITIES MANAGEMENT DIVISION Architectural, Engineering & Environmental Services

633 WEST WISCONSIN AVENUE, SUITE 1000 MILWAUKEE, WI 53203



Project #: **P560-17630** Site #: **639** Building #: ----Date: 12/13/2019

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PROJECT LOCATION MAP

1. CONTRACTOR SHALL CALL DIGGERS HOTLINE (800) 242-8511 FOR

UTILITIES LOCATION 3 DAYS PRIOR TO START OF CONSTRUCTION. CONTRACTOR SHALL CONTACT MILWAUKEE COUNTY PARKS MAINTENANCE FOR LOCATING ALL UTILITIES ON SITE, WITH

MINIMUM 5 DAYS NOTICE. (414) 258-2322. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS AND COORDINATE/SCHEDULE WITH MILWAUKEE COUNTY AND ALL OTHER NECESSARY GOVERNMENT ENTITIES.

ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.

POINT OF CONTACT

Karl Stave, PE Milwaukee County - A&E + ES Section PHONE: 414.278.4863 Karl.Stave@milwaukeecountywi.gov

SMITHGROUP

PRIME CONSULTANT

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DIRECTOR, (OWNER DEPT.):	
	NAME OF DIRECTOR - MILWAUKEE CO. DEPT.
DIRECTOR, AE&ES SECTION, DAS - FM :	
	GREG HIGH
DAS - AE&ES UNIT HEAD :	
	(WILLIAM BANACH/ STEVAN KEITH/ KARL STAVE/ JAMES ZSEBE)
DAS - AE&ES PROJECT MANAGER :	
	NAME OF PROJECT MANAGER



PROJECT: P560-17630

SITE NO:

BUILDING NO:

SEALS AND SIGNATURES

NOTFOR

CONSTRUCTO

SMITHGROUP

44 EAST MIFFLIN STREET SUITE 500 MADISON, WI 53703 608.251.1177 www.smithgroup.com

SCALE

OVERALL KEY PLAN G-002

ARÊA C AREA D

REFERENCE SYMBOLS SITE SECTION SECTION NUMBER SHEET WHERE DRAWN, HYPHEN INDICATES DETAIL ON SAME SHEET **KEYED NOTE MARK** - SEE CORRESPONDING NUMBERED KEY NOTE ON SHEET WHERE REFERENCE OCCURS - DESIGNATION FOR TYPICAL PLAN DETAIL REFERENCE DETAIL NUMBER SHEET WHERE DRAWN, HYPHEN INDICATES DETAIL ON SAME SHEET REVISION NUMBER AND EXTENT REVISION NUMBER - SEE **REVISION HISTORY ON THE** TITLE BLOCK OF EACH SHEE1 STORMWATER POLLUTION PREVENTION EXTENT OF CURRENT REVISION PLANT MATERIAL LABEL PLANT CODE IN PLANT SCHEDULE PLANT QUANTITY MATCHLINE REFERENCE - SHEET MATCHLINE MATCHLINE: SEE SHEET SHEET CALLOUT — DRAWING TITLE SYMBOLS

- DRAWING NUMBER

PROFILE VIEW TITLE

SCALE: 1" = 1'

HORIZ SCALE: 1" = 10'

VERT SCALE: 1" = 2'

VIEW TITLE

NORTH ARROW

ABBREVIATIONS

GUTTER OF CURB (FLOWLINE)

HIGH-DENSITY POLYETHYLENE

NATURAL GAS

GRAVEL

HIGH

HOSE BIBB

ADA HANDICAP

HOT MIX ASPHALT

INNER DIAMETER

INCLUDE, INCLUDING

PIPE INVERT ELEVATION

INCH, INCHES

IRRIGATION

K VALUE

JOINT

LENGTH

LINEAR FEET

LOW POINT

MATERIAL

MAXIMUM

MANHOLE

MINIMUM

MATCH EXISTING

MISCELLANEOUS

NOT APPLICABLE

NOT IN CONTRACT

NOT TO SCALE

ON CENTER

OFFSET

OPTIONAL

PEDESTRIAN

PERFORATED

PLUMBING

PROPOSED

CHLORIDE

PREPARATION

PERPENDICULAR

OUTER DIAMETER

POINT OF CURVATURE (POC)

POUNDS PER SQUARE FOOT

POUNDS PER SQUARE INCH

POINT, POINT OF TANGENCY (POT)

POINT OF VERTICAL INTERSECTION

POINT OF VERTICAL CURVATURE, POLYVINYL

LENGTH OF VERTICAL CURVE

NORTH, NORTHING COORDINATE

LANE

HORIZONTAL

HIGH POINT

HEIGHT

GAS

G/C:

GVL

HCAP

HDPE

HMA

HORZ

INCL

LN

LVC

MATL

MAX

MISC

NIC

N.T.S.

O.C.

O.D.

OFF

OPT

PC

PED

PERF

PERP

PLMB

PREP

PROP

PSF

PSI

PVMT

PWR

QTY

RAD

RCP

REINF

REQD

RIM:

ROW

SAN

SCH

SQ FT

SQ YD

STA

STAG

STD

STL

SSL

STM

T/C

UD

UTIL

W/O

YD

SYMBOL

SWPPP

PAVEMENT

QUANTITY

RADIUS

ROAD

REFERENCE

REMOVE

SOUTH

SCHEDULE

CONTROL

SQUARE FEET

SQUARE YARD

STREET

STATION

STANDARD

STAINLESS STEEL

STORM SEWER

STEEL

PLAN

TELECOM

TOP OF CURB

TEMPORARY

TOP OF FOOTING

TOP OF SWALE

TOP OF WALL

UNDERDRAIN

VALVE BOX

VERTICAL

WATER MAIN

YARD DRAIN

DIAMETER

DELTA

PLUS/MINUS

WELDED WIRE FABRIC

WITHOUT

WEST

TYPICAL

UTILITY

REQUIRED

RIM ELEVATION

RIGHT OF WAY

SANITARY SEWER

REINFORCED CONCRETE PIPE

REINFORCED, REINFORCEMENT

SOIL EROSION AND SEDIMENTATION

SPACE, SPACED, SPACING

STAGGER, STAGGERED

POWER

EROSION CONTROL NOTES

- POST WDNR CERTIFICATE OF PERMIT COVERAGE ON SITE AND MAINTAIN UNTIL CONSTRUCTION ACTIVITIES HAVE CEASED THE SITE IS STABILIZED, AND A NOTICE OF TERMINATION IS FILED WITH WDNR.
- KEEP A COPY OF THE CURRENT EROSION CONTROL PLAN ON SITE THROUGHOUT THE DURATION OF THE PROJECT. SUBMIT PLAN REVISIONS OR AMENDMENTS TO THE WDNR AT LEAST 5 DAYS PRIOR TO FIELD IMPLEMENTATION.
- CONTRACTOR IS RESPONSIBLE FOR ROUTINE SITE INSPECTIONS AT LEAST ONCE EVERY 7 DAYS AND WITHIN 24 HOURS AFTER A RAINFALL EVENT OF 0.5 INCHES OR GREATER. KEEP INSPECTION REPORTS ON-SITE AND MAKE THEM AVAILABLE **UPON REQUEST**
- INSPECT AND MAINTAIN ALL INSTALLED EROSION CONTROL PRACTICES UNTIL THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED.
- WHEN POSSIBLE: PRESERVE EXISTING VEGETATION (ESPECIALLY ADJACENT TO SURFACE WATERS), MINIMIZE LAND-DISTURBING CONSTRUCTION ACTIVITY ON SLOPES OF 20% OR MORE, MINIMIZE SOIL COMPACTION, AND PRESERVE
- REFER TO THE WDNR STORMWATER CONSTRUCTION http://dnr.wi.gov/topic/stormwater/standards/const_standards.html.
- INSTALL PERIMETER EROSION CONTROLS AND STABILIZED CONSTRUCTION ENTRANCES AT ALL POINTS OF CONSTRUCTION 17. INGRESS AND EGRESS PRIOR TO ANY LAND-DISTURBING ACTIVITIES, INCLUDING CLEARING AND GRUBBING. USE WDNR TECHNICAL STANDARD STONE TRACKING PAD AND TIRE WASHING #1057 FOR STABILIZED CONSTRUCTION ENTRANCES. INSTALL INLET PROTECTION PRIOR TO LAND-DISTURBING ACTIVITIES IN THE CONTRIBUTING DRAINAGE AREA AND/OR
- IMMEDIATELY UPON INLET INSTALLATION. COMPLY WITH WDNR TECHNICAL STANDARD STORM DRAIN INLET PROTECTION FOR CONSTRUCTION SITES #1060 STAGE CONSTRUCTION GRADING ACTIVITIES TO MINIMIZE THE CUMULATIVE EXPOSED AREA. CONDUCT TEMPORARY

GRADING FOR EROSION CONTROL PER WDNR TECHNICAL STANDARD TEMPORARY GRADING PRACTICES FOR EROSION

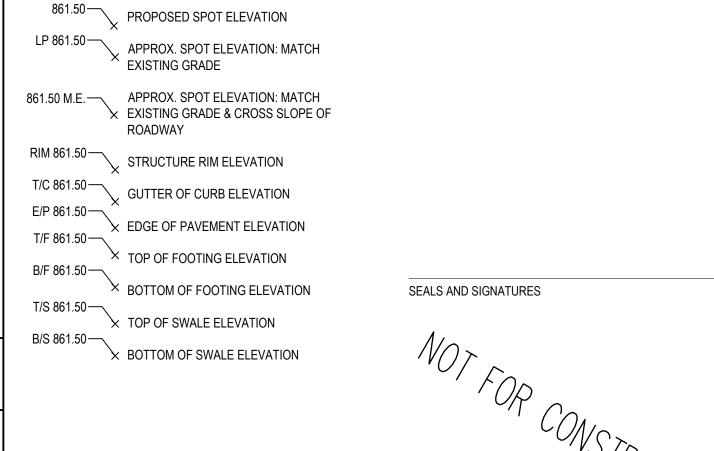
- CONTROL #1067 NOTIFY ENGINEER IF DEWATERING IS SCHEDULED TO OCCUR IN AREAS OF SOIL AND/OR GROUNDWATER CONTAMINATION. OR IF DEWATERING WILL OCCUR FROM A HIGH CAPACITY WELL (70 GPM OR MORE), DEWATER ONLY AFTER THE APPROPRIATE WDNR DEWATERING DISCHARGE PERMIT HAS BEEN OBTAINED.
- PROVIDE ANTI-SCOUR PROTECTION AND MAINTAIN NON-EROSIVE FLOW DURING DEWATERING. LIMIT PUMPING RATES EITHER (A) THE SEDIMENT BASIN/TRAP DESIGN DISCHARGE RATE. OR (B) THE BASIN DESIGN RELEASE RATE WITH TH CORRECTLY FITTED HOSE AND GEOTEXTILE FILTER BAG. PERFORM DEWATERING OF ACCUMULATED SURFACE RUNOFF I
- ACCORDANCE WITH WDNR TECHNICAL STANDARD DE-WATERING #1061 COMPLETE AND STABILIZE SEDIMENT BASINS/TRAPS OR WET PONDS PRIOR TO MASS LAND DISTURBANCE TO CONTROL RUNOFF DURING CONSTRUCTION, REMOVE SEDIMENT AS NEEDED TO MAINTAIN 3 FEET OF DEPTH TO THE OUTLET, AND PROPERLY DISPOSE OF SEDIMENT REMOVED DURING MAINTENANCE (REFER TO NR 528). CONSTRUCT AND MAINTAIN THE
- SEDIMENT BASIN PER WDNR TECHNICAL STANDARD SEDIMENT BASIN #1064 AND SEDIMENT TRAP #1063. CONSTRUCT AND PROTECT THE BIOINFILTRATION BASIN AND VEGETATION FROM RUNOFF AND SEDIMENT DURING
- CONSTRUCTION. REFERENCE THE WDNR TECHNICAL STANDARD BIORETENTION FOR INFILTRATION #1004 INSTALL AND MAINTAIN SILT FENCING PER WDNR TECHNICAL STANDARD SILT FENCE. REMOVE SEDIMENT FROM BEHIND SILT
- FENCES AND SEDIMENT BARRIERS BEFORE SEDIMENT REACHES A DEPTH THAT IS EQUAL TO ONE-HALF OF THE FENCE AND/OR BARRIER HEIGHT REPAIR BREAKS AND GAPS IN SILT FENCES AND BARRIERS IMMEDIATELY. REPLACE DECOMPOSING STRAW BALES (TYPICAL
- BALE LIFE IS 3 MONTHS). LOCATE, INSTALL, AND MAINTAIN STRAW BALES PER WDNR TECHNICAL STANDARD DITCH CHECKS
- INSTALL AND MAINTAIN SEDIMENT CONTROL TUBES IN ACCORDANCE WITH WDNR TECHNICAL STANDARD INTERIN MANUFACTURED PERIMETER CONTROL AND SLOPE INTERRUPTION PRODUCTS #1071
- IMMEDIATELY STABILIZE STOCKPILES AND SURROUND STOCKPILES AS NEEDED WITH SILT FENCE OR OTHER PERIMETER CONTROL IF STOCKPILES WILL REMAIN INACTIVE FOR 7 DAYS OR LONGER.
- IMMEDIATELY STABILIZE ALL DISTURBED AREAS THAT WILL REMAIN INACTIVE FOR 14 DAYS OR LONGER, BETWEEN SEPTEMBER 15 AND OCTOBER 15: STABILIZE WITH MULCH, TACKIFIER, AND A PERENNIAL SEED MIXED WITH WINTER WHEAT. ANNUAL OATS, OR ANNUAL RYE, AS APPROPRIATE FOR REGION AND SOIL TYPE, OCTOBER 15 THROUGH COLD WEATHER: STABILIZE WITH A POLYMER AND DORMANT SEED MIX, AS APPROPRIATE FOR REGION AND SOIL TYPE.
- STABILIZE AREAS OF FINAL GRADING WITHIN 7 DAYS OF REACHING FINAL GRADE.
- SWEEP/CLEAN UP ALL SEDIMENT/TRASH THAT MOVES OFF-SITE DUE TO CONSTRUCTION ACTIVITY OR STORM EVENTS BEFORE THE END OF THE SAME WORKDAY OR AS DIRECTED BY ENGINEER. SEPARATE SWEPT MATERIALS (SOILS AND TRASH) AND DISPOSE OF APPROPRIATELY.
- 22. CONTRACTOR IS RESPONSIBLE FOR CONTROLLING DUST PER WDNR TECHNICAL STANDARD DUST CONTROL ON CONSTRUCTION SITES #1068.
- 3. PROPERLY DISPOSE OF ALL WASTE AND UNUSED BUILDING MATERIALS (INCLUDING GARBAGE, DEBRIS, CLEANING WASTES OR OTHER CONSTRUCTION MATERIALS) AND DO NOT ALLOW THESE MATERIALS TO BE CARRIED BY RUNOFF INTO THE
- COORDINATE WITH ENGINEER TO UPDATE THE LAND DISTURBANCE PERMIT TO INDICATE THE ANTICIPATED OR LIKELY DISPOSAL LOCATIONS FOR ANY EXCAVATED SOILS OR CONSTRUCTION DEBRIS THAT WILL BE HAULED OFF-SITE FOR DISPOSAL. THE DEPOSITED OR STOCKPILED MATERIAL NEEDS TO INCLUDE PERIMETER SEDIMENT CONTROL MEASURES (SUCH AS SILT FENCE, HAY BALES, SEDIMENT CONTROL TUBES, OR COMPACTED EARTHEN BERMS) 5. FOR NON-CHANNELIZED FLOW ON DISTURBED OR CONSTRUCTED SLOPES, PROVIDE CLASS I TYPE A EROSION CONTROL
- MATTING. SELECT EROSION MATTING FROM APPROPRIATE MATRIX IN WDOT'S WISDOT PRODUCT ACCEPTABILITY LIST (PAL): INSTALL AND MAINTAIN PER WDNR TECHNICAL STANDARD NON-CHANNEL EROSION MAT #1052. 26. FOR CHANNELIZED FLOW ON DISTURBED OR CONSTRUCTED AREAS, PROVIDE CLASS II TYPE B EROSION CONTROL MATTING.
- SELECT EROSION MATTING FROM APPROPRIATE MATRIX IN WDOT'S WISDOT PRODUCT ACCEPTABILITY LIST (PAL); INSTALL AND MAINTAIN PER WDNR TECHNICAL STANDARD CHANNEL EROSION MAT #1053.
- MAKE PROVISIONS FOR WATERING DURING THE FIRST 8 WEEKS FOLLOWING SEEDING OR PLANTING OF DISTURBED AREAS WHENEVER MORE THAN 7 CONSECUTIVE DAYS OF DRY WEATHER OCCUR.
- 28. INSTALL ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES (SUCH AS TEMPORARY SEDIMENT BASINS, DITCH CHECKS, EROSION CONTROL MATTING, SILT FENCING, SEDIMENT CONTROL TUBES, WATTLES, SWALES, ETC.), OR AS

GENERAL NOTES

- PRIOR TO START OF PROJECT WORK, VERIFY ALL SITE CONDITIONS AND SUBMIT A PROJECT WORK PLAN TO THE ENGINEER FOR REVIEW AND COMMENT. PRESENT THE WORK PLAN AT THE OWNER'S PRE-CONSTRUCTION MEETING. DO NOT BEGIN PRIOR TO THE 'PRE-CONSTRUCTION MEETING' AND WRITTEN AUTHORIZATION TO PROCEED IS ISSUED BY THE OWNER.
- NOTIFY THE ENGINEER IN WRITING OF ANY IDENTIFIED DISCREPANCIES WITHIN THE CONSTRUCTION DOCUMENTS PRIOR TO THE START OF WORK. DURING PERFORMANCE OF THE WORK, VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE AND CROSS-CHECK DETAILS AND DIMENSION SHOWN ON THE DRAWINGS WITH RELATED REQUIREMENTS ON THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS PRIOR TO STARTING WORK. IN ALL CASES WHERE A CONFLICT MAY OCCUR, THE ENGINEER SHALL BE NOTIFIED AND WILL INTERPRET THE INTENT OF THE CONTRACT DOCUMENTS.
- 3. PRIOR TO THE COMMENCEMENT OF WORK, VERIFY LOCATIONS AND DEPTHS OF ALL UNDERGROUND UTILITIES THAT MAY BE AFFECTED BY CONSTRUCTION AND TAKE RESPONSIBILITY FOR DAMAGES TO SUCH UTILITIES CAUSED AS A RESULT OF CONSTRUCTION.
- 4. TAKE ALL NECESSARY PRECAUTIONARY MEASURES TO PROTECT THE PUBLIC AND ADJACENT PROPERTIES FROM DAMAGE THROUGHOUT CONSTRUCTION, INCLUDING DAMAGES TO UTILITIES, WALKS, WALLS, DRIVES, CURBS, ETC.
- 5. SECURE ALL NECESSARY PERMITS AND NOTIFY ALL UTILITY COMPANIES WITH UTILITIES ON THE SITE PRIOR TO THE CONSTRUCTION OF THE PROJECT. ADHERE TO ALL APPLICABLE LOCAL, STATE, AND FEDERAL LAWS OR REGULATIONS PERTAINING TO THE PROJECT.
- UNDERGROUND UTILITY INFORMATION SHOWN ON THESE DRAWINGS IS BASED ON FIELD LOCATIONS AND/OR RECORDS FURNISHED BY MUNICIPALITIES AND UTILITY COMPANIES. THE LOCATION AND ACCURACY OF WHICH CANNOT BE GUARANTEED. THERE MAY BE ADDITIONAL UNDERGROUND UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

- VERIFY LOCATIONS AND INVERTS IN THE FIELD. ANY POTENTIAL ERRORS. OMISSIONS. OR DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION
- ESTABLISH AND MAINTAIN SITE SECURITY UNTIL PROJECT ACCEPTANCE. USE DIMENSIONS SHOWN ON DRAWINGS FOR LAYOUT OF THE WORK. DO NOT USE SCALE DIMENSIONS FROM PLANS SECTIONS, OR DETAILS ON THE DRAWINGS.
- REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS NOT SHOWN ON DRAWINGS.
- DETAILS NOTED AS TYPICAL SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY SHOWN OR NOTED OTHERWISE. WHERE NO SPECIFIC DETAIL IS SHOWN. THE CONSTRUCTION SHALL BE IDENTICAL OR SIMILAR TO THAT INDICATED FOR LIKE CASES OF CONSTRUCTION ON THIS PROJECT.
- TAKE NOTE OF ALL GRADING AND DRAINAGE WAYS AND MAINTAIN THESE DRAINAGE WAYS TO FLOW FREE OF OBSTRUCTIONS.
- COORDINATE CONSTRUCTION OF PENETRATIONS, SLEEVES, VARIATIONS IN THE SLAB ELEVATIONS, DEPRESSED AREAS AND ALL OTHER ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING REQUIREMENTS.
- DISPOSE ALL ELEMENTS DESIGNATED FOR REMOVAL IN A LEGAL MANNER. PROVIDE RECEIPTS AND LETTERS FROM DISPOSAL SITES TO OWNER AS REQUIRED BY THE OWNER.
- PREPARE ALL SUBGRADES IN ACCORDANCE WITH RECOMMENDATIONS OF GEOTECHNICAL ENGINEER. PROVIDE PROOF OF ALL REQUIRED SOIL COMPACTION TO THE OWNER.
- ALL CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES
- COORDINATE WORK OF SUBCONTRACTORS AND ALL OTHER CONTRACTORS TO ENSURE ORDERLY AND EFFICIENT
- INDEPENDENT OF NUMERIC QUANTITIES ON DRAWINGS OR IN THE PLANT SCHEDULE, DETERMINE THE PLANT MATERIA QUANTITIES REQUIRED BY THE PLANS. SPACE PLANT MATERIALS AS SHOWN ON PLANS AND INDICATED IN PLANT SCHEDUL PLANT MATERIALS SHALL CONFORM TO PLANT SCHEDULES AND SIZES SHALL BE THE MINIMUM INDICATED ON THE PLANT SCHEDULE OR LARGER, INSTALLATION OF LARGER PLANTS AT NO ADDITIONAL COST TO OWNER, ALL MEASUREMENTS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ANLA "STANDARDS FOR NURSERY STOCK"
- PRIOR TO INSTALLATION, DEMARCATE LAYOUT OF ALL PLANTING BEDS, SEED AREAS, AND INDIVIDUAL TREES FOR REVIEW AND APPROVAL BY FIELDAPPROVER. INCLUDE PERENNIAL GROUPINGS BY SPECIES FOR INTERNAL BED LAYOUTS FLAGGING, STAKES, OR PAINT MAY BE USED TO DELINEATE LOCATIONS AS SCALED FROM THE PLANS. THE FIELDAPPROVEI WILL REVIEW THESE LOCATIONS WITH THE CONTRACTOR AND MAY MAKE MINOR ADJUSTMENTS AS NECESSARY. SUCH ADJUSTMENTS WILL BE AT NO ADDITIONAL COST TO THE OWNER.
- SEEDING APPLIES TO ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES EVEN IF ACTIVITIES EXTEND BEYOND TH APPROXIMATED SEEDING LIMITS INDICATED ON THE DRAWINGS. REPAIR ANY DISTURBED AREAS TO THE SAME CONDITION AS ORIGINALLY FOUND AND TO THE OWNER'S SATISFACTION. IN AREAS WHERE LAWN IS DISTURBED BEYOND THE LIMITS OF CONSTRUCTION, REPLACE LAWN WITH NEW LAWN SEED (INCLUDING TOPSOIL, SEED AND MULCH) AT NO ADDITIONAL COST TO THE OWNER. REFER TO SPECIFICATIONS FOR SEED MIXES.
- UTILIZE HORTICULTURAL TREE WATERING BAGS FOR TREES PLANTED OUTSIDE OF IRRIGATED LANDSCAPE ZONES THROUGHOUT WARRANTY PERIOD. REPLENISH TREE WATERING BAGS REGULARLY SO THAT NONE REMAIN WITHOUT WATER FOR MORE THAN 24 HOURS.
- MINIMIZE CULTIVATION WITHIN THE DRIPLINES OF EXISTING TREES. PREPARE SOIL FOR SEEDING BY MINIMIZING DISTURBANCE TO 4-INCH DEPTH. HAND CULTIVATE WHEN ENCOUNTERING ROOTS. NO HEAVY EQUIPMENT ALLOWED WITHIN DRIPLINE OF EXISTING TREES
- SHOVEL-CUT PLANTING BED EDGES UNLESS LABELED OTHERWISE
- MULCH PLANTING BEDS PER SPECIFICATIONS. KEEP MULCH 4 INCHES FROM TREE TRUNKS AND SHRUB CROWNS CONTACT "811" UNDERGROUND UTILITIES LOCATION CENTER PRIOR TO INSTALLATION OF PLANT MATERIAL AND IRRIGATION
- LEGALLY DISPOSE OF DEBRIS ASSOCIATED WITH PLANTING OFF-SITE
- ALL ABBREVIATIONS, SYMBOLS, AND LEGENDS SHOWN ON THIS DRAWING ARE NOT NECESSARILY USED.
- THE HORIZONTAL DATUM IS ACCORDING TO THE NORTH AMERICAN DATUM OF 1927 (NAD27), STATE PLANE COORDINATES WISCONSIN SOUTH ZONE
- THE VERTICAL DATUM IS ACCORDING TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29)
 - LOW WATER DATUM IS 578.34 FEET NGVD29.
 - MEAN WATER LEVEL IS 579.68 FEET NGVD29.
 - RECORD HIGH WATER ELEVATION IS 583.19 FEET NGVD29.

GRADING SYMBOLS



SMITHGROUP

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GENERAL NOTES

ABD

ABS

ADA

ANLA

ARCH

ANSI

ASTM

B.M.

B/S

BVCE

BVCS

B/W

CON

CO

CONC

CU FT

CURV

CU YD

CWR

CWS

DEMO

DEPT

DWG

ELEV

EQ

ESVCP

EVCE

EVCS

FF:

FHWA

FURN

GALV

ABANDONED

ASSOCIATION

MATERIALS

BENCHMARK

BITUMINOUS

CATCH BASIN

CURB INLET

CLASS

CAST IRON PIPE

CONDENSATE

CLEANOUT

CONCRETE

CUBIC FOOT

CURVATURE

CUBIC YARD

DEMOLISH

DIAMETER

DRAWING

EACH

EQUAL

EXISTING

FINISH GRADE

FORCE MAIN

FOOT, FEET

FURNISHING

GALVANIZED

DEPARTMENT

DUCTILE IRON PIPE

EXISTING GRADE

ELEVATION

EAST, EASTING COORDINATE

EDGE OF PAVEMENT (EDGE OF METAL)

EXTRA STRENGTH VITRIFIED CLAY PIPE

END OF VERTICAL CURVE ELEVATION

FEDERAL HIGHWAY ADMINISTRATION

END OF VERTICAL CURVE STATION

FINISH FLOOR ELEVATION

CORRUGATED METAL PIPE

CHILLED WATER RETURN

CHILLED WATER SUPPLY

BOTTOM OF FOOTING

BOTTOM OF SWALE

BUILDING

ARCHITECT(URAL)

ACRES

ACRYLONITRILE BUTADIENE STYRENE

AMERICANS WITH DISABILITIES ACT

AMERICAN NURSERY AND LANDSCAPE

AMERICAN SOCIETY FOR TESTING AND

AMERICAN NATIONAL STANDARDS INSTITUTE

BEGINNING OF VERTICAL CURVE ELEVATION

BEGINNING OF VERTICAL CURVE STATION

BOTTOM OF WALL (FINISH GRADE)

MKE CO SOUTH SHORE DRIVE, MILWAUKEE, WI 53207

Milwaukee County Dept. o FACILITIES M rchitectural, Engineering &

12/13/2019 PROJECT:

P560-17630 SITE NO: 639

MKE CO SOUTH SHORE PARK 2900 SOUTH SHORE DRIVE, MILWAUKEE, WI 53207

12/13/2019 PROJECT:

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MKE CO SOUTH SHORE, WI 53207

ministrative Services AGEMENT DIVISION vironmental Services E1000 MILWAUKEE, WI 53203

12/13/2019 PROJECT: P560-17630

> SITE NO: 639

MKE CO SOUTH SHORE PARK 2900 SOUTH SHORE DRIVE, MILWAUKEE, WI 53207

12/13/2019 PROJECT: P560-17630 SITE NO: 639 BUILDING NO:

SCALE

- GEOTEXTILE FABRIC, __ 2" x 4" STAKE AND GEOTEXTILE FABRIC, — CROSS BRACING DIRECTION OF -**RUNOFF WATER FLOW BURIED FABRIC MI** 6" DEPTH INLET PROTECTION, TYPE B (WITHOUT CURB BOX) — 2" x 4" STAKE AND (CAN BE INSTALLED IN ANY INLET WITHOUT CROSS BRACING A CURB BOX) GEOTEXTILE FABRIC, — WOOD 2" x 4" EXTENDS 8" BEYOND GRATE TYPE FF WIDTH ON BOTH SIDES, LENGTH VARIES. SECURE TO GRATE WITH WIRE OR PLASTIC TIES (WITH CURB BOX) ATTACH GEOTEXTILE FABRIC, TYPE FF TO THE INLET WITH OR — STAKES AND CROSS WITHOUT GRATE BRACING. GEOTEXTILE FABRIC, TYPE FF INLET PROTECTION, TYPE A

INLET PROTECTION, TYPE C

GENERAL NOTES:

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED. WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

- 1. FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
- FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.
- 3. FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT

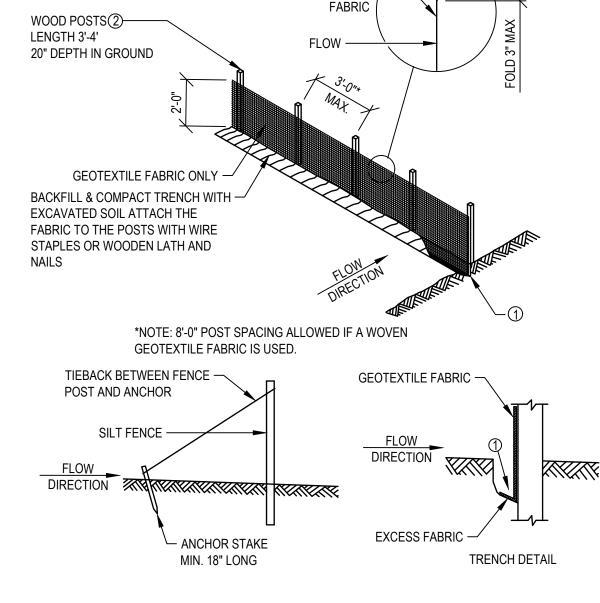
FLAP POCKET **DIMENSION LENGTH AND -**WIDTH TO MATCH INLET SPECIFICATIONS AS PER THE PLAN USE REBAR OR STEEL ROD FOR REMOVAL GEOTEXTILE FABRIC, — FOR INLETS WITH CAST CURB BOX USE WOOD 2" x 4", EXTEND FRONT, BACK, AND BOTTOM 10" BEYOND GRATE WIDTH ON TO BE MADE FROM SINGLE BOTH SIDES, LENGTH VARIES. PIECE OF FABRIC SECURE TO GRATE WITH WIRE OR PLASTIC TIES MINIMUM DOUBLE STITCHED -SEAMS ALL AROUND SIDE 4" X 6" OVAL HOLE SHALL BE PIECES AND ON FLAP HEAT CUT INTO ALL FOUR POCKETS. SIDE PANELS. INLET PROTECTION, TYPE D (CAN BE INSTALLED IN ANY INLET TYPE WITH

INSTALLATION NOTES:

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE. THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

OR WITHOUT A CURB BOX AS PER NOTE (2))

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE. TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE. THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.



SUPPORT :

GEOTEXTILE

CORD

NOTE: ADDITIONAL POST DEPTH OR TIE

BACKS MAY BE REQUIRED IN UNSTABLE

SOILS

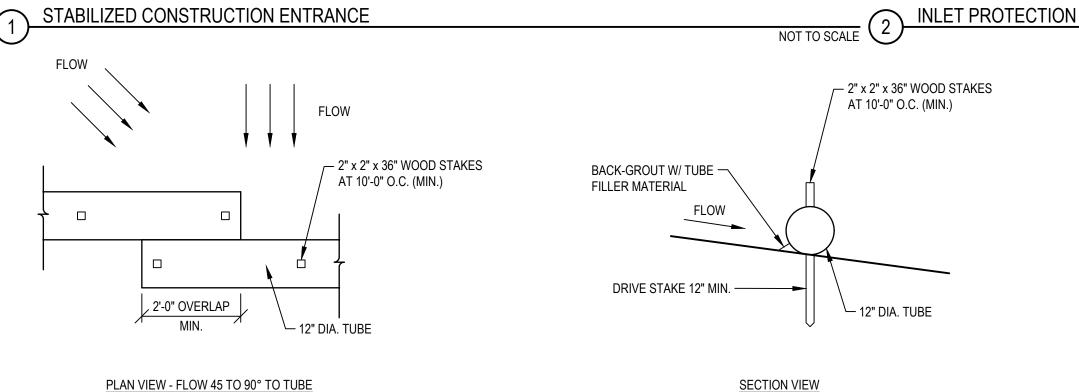
SILT FENCE TIE BACK (WHEN ADDITIONAL SUPPORT REQUIRED)

GENERAL NOTES:

DO NOT DRIVE POSTS INTO ANY

- FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE AND 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC, FOLD MATERIAL TO FIT TRENCH AND BACKFILL AND COMPACT TRENCH WITH EXCAVATED SOIL.
- 2. WOOD POSTS SHALL BE A MINIMUM SIZE OF 11/8" x 11/8" OF OAK OR HICKORY.

NOT TO SCALE



- MINIMUM 12" BASE

3 - 6" STONE

- EXISTING

TEMPORARY DRAINAGE PIPE

EXISTING

PAVEMENT

SECTION VIEW

(IF NECESSARY)

PAVEMENT

50' MINIMUM LENGTH

MINIMUM 12" BASE

50' MINIMUM LENGTH

EARTH FILL

3 - 6" STONE

PROFILE

- GEOTEXTILE LINER

PROVIDE STABILIZED CONSTRUCTION

ENTRANCE AT ALL POINTS OF EGRESS

SEDIMENT CONTROL TUBE

PAVEMENT SURFACES.

BETWEEN OPEN EXCAVATION AREAS AND

WHEN SEDIMENT CONTROL TUBE IS USED ON A PAVED SURFACE CONCRETE BLOCKS SHALL BE USED TO SECURE SEDIMENT CONTROL TUBE IN PLACE OF STAKING. ACCUMULATED SEDIMENT SHALL BE REMOVED FROM BEHIND THE SEDIMENT CONTROL TUBE WHEN IT HAS REACHED A HEIGHT EQUAL TO HALF OF THE TUBE HEIGHT. 4'-0" (MIN.) HOOK SMALL HOLES OR NARROW RIPS LESS THAN 12" LONG MAY BE STITCHED CLOSED USING PLASTIC _ 2" x 2" x 36" WOOD STAKES ⊁ ZIP TIES. LARGER RIPS SHALL BE FIXED PER THE REPAIR DETAIL. HEAVILY DAMAGED SECTIONS AT 10'-0" O.C. (MIN.) SHALL BE REPLACED ENTIRELY. MAINTAIN 2' MINIMUM OVERLAP AT EACH END. LONGER THAN 12" NEW FABRIC WRAPPED AROUND TUBE AND TIED AT DOWNSTREAM SIDE. EXTEND NEW FABRIC A MINIMUM OF 12" PAST EACH END OF TEAR └─ PLASTIC TIES , 2'-0" OVERLAP OR STITCHING - 12" DIA. TUBE REPAIR DETAIL - TEAR GREATER THAN 12 PLAN VIEW - FLOW LESS THAN 45° TO

NOTES:

DISTURBED AREA IS STABILIZED. 2. DANGER BUOYS SHALL TO BE USED AS DIRECTED BY COAST GUARD OR WDNR PERMIT WHEN WORKING IN NAVIGABLE WATERWAYS. NORMAL — 3. ALLOW SUFFICIENT SLACK VERTICALLY AND HORIZONTALLY SO THAT SEDIMENT BUILD UP WILL WATER NOT SEPARATE OR LOWER THE TURBIDITY CURTAIN. SURFACE **ELEVATION** - FLOATATION LOG, OR APPROVED DANGER -EQUAL (49 SQ. IN. MIN. END AREA) - SAND BAG (40 LBS. MIN.) ANCHOR -LAKE BOTTOM

TURBIDITY BARRIER SHALL BE INSTALLED BEFORE CONSTRUCTION ACTIVITIES ARE INITIATED AND REMAIN IN PLACE AND BE MAINTAINED UNTIL

STRUCTURAL ROOT OR ROOT OVER 1/2" SEE PLAN FOR TREE PROTECTION LOCATIONS AND ADDITIONAL NOTES. CALIPER MEASURED 4.5' FROM GROUND. SEE PLANS FOR TREE PROTECTION BOUNDARIES AS THEY MAY VARY FROM THE CRR* INDICATED DUE TO SURROUNDING SITE CONDITIONS. SEE SPECIFICATION 31 13 16 FOR TREE PROTECTION FENCING. - EXISTING TREE 1.5' PER TREE CALIPER INCH TREE PROTECTION FENCING CHAIN LINK - METAL FENCE POSTS, TYP. 2" MULCH WITHIN PROTECTION AREA

*CRR - CRITICAL ROOT RADIUS IS DEFINED AS TREE DIA. (AT LEAST 4.5' FROM GROUND) x 1.5 = CRR VALUE EXPRESSED IN FEET

TREE PROTECTION FENCE

SEALS AND SIGNATURES



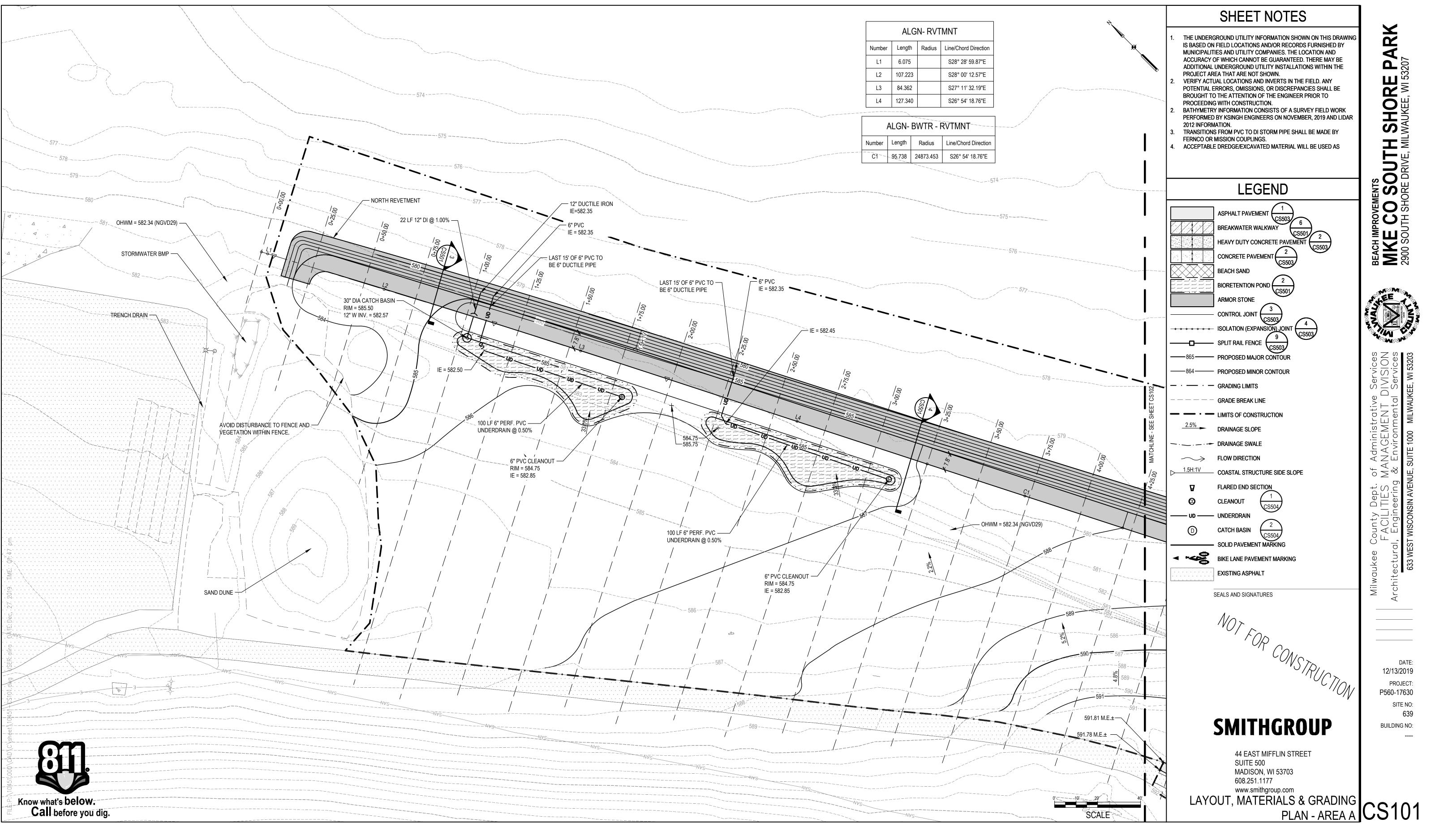
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NOT TO SCALE

TURBIDITY BARRIER

NOT TO SCALE

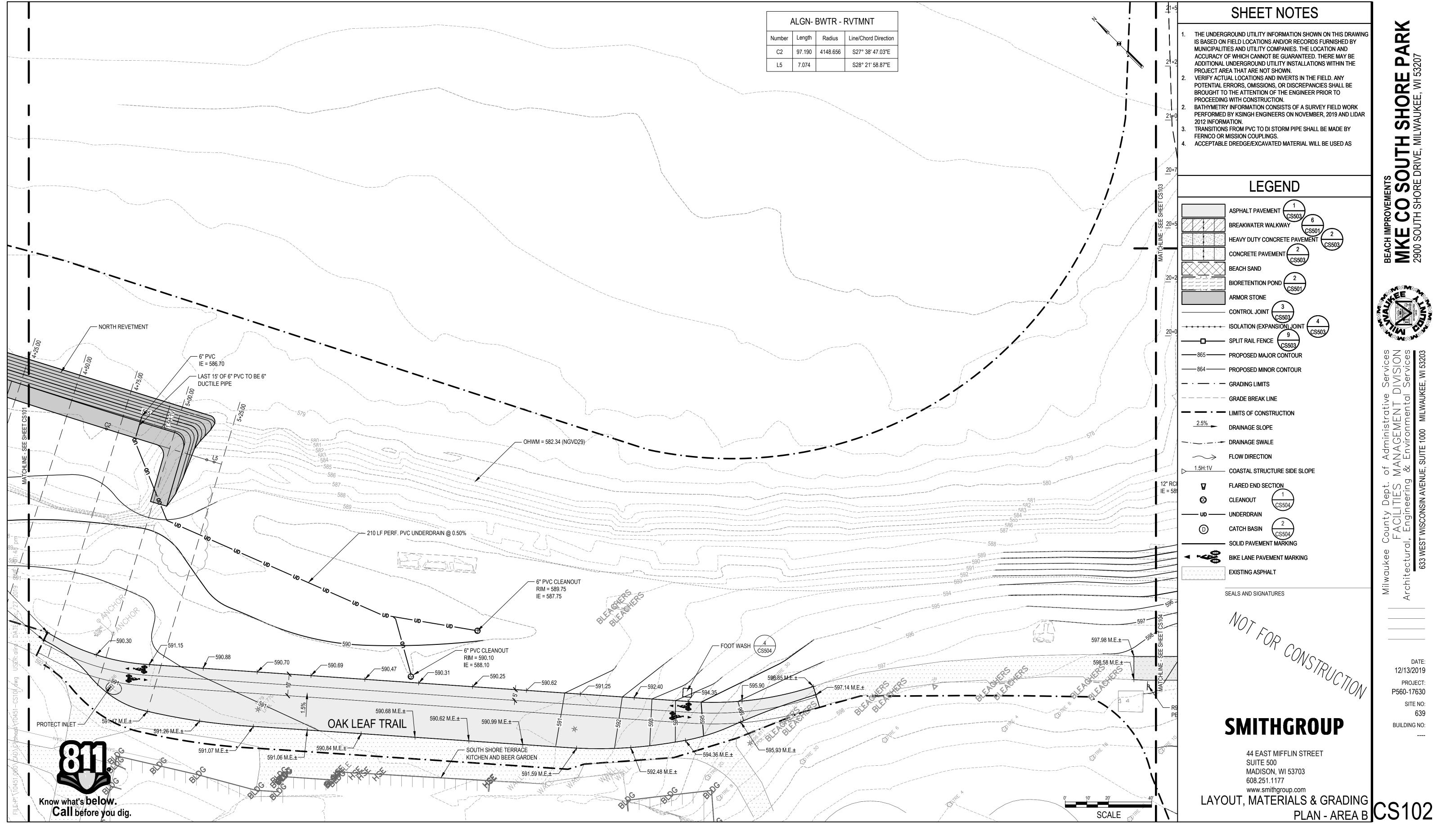


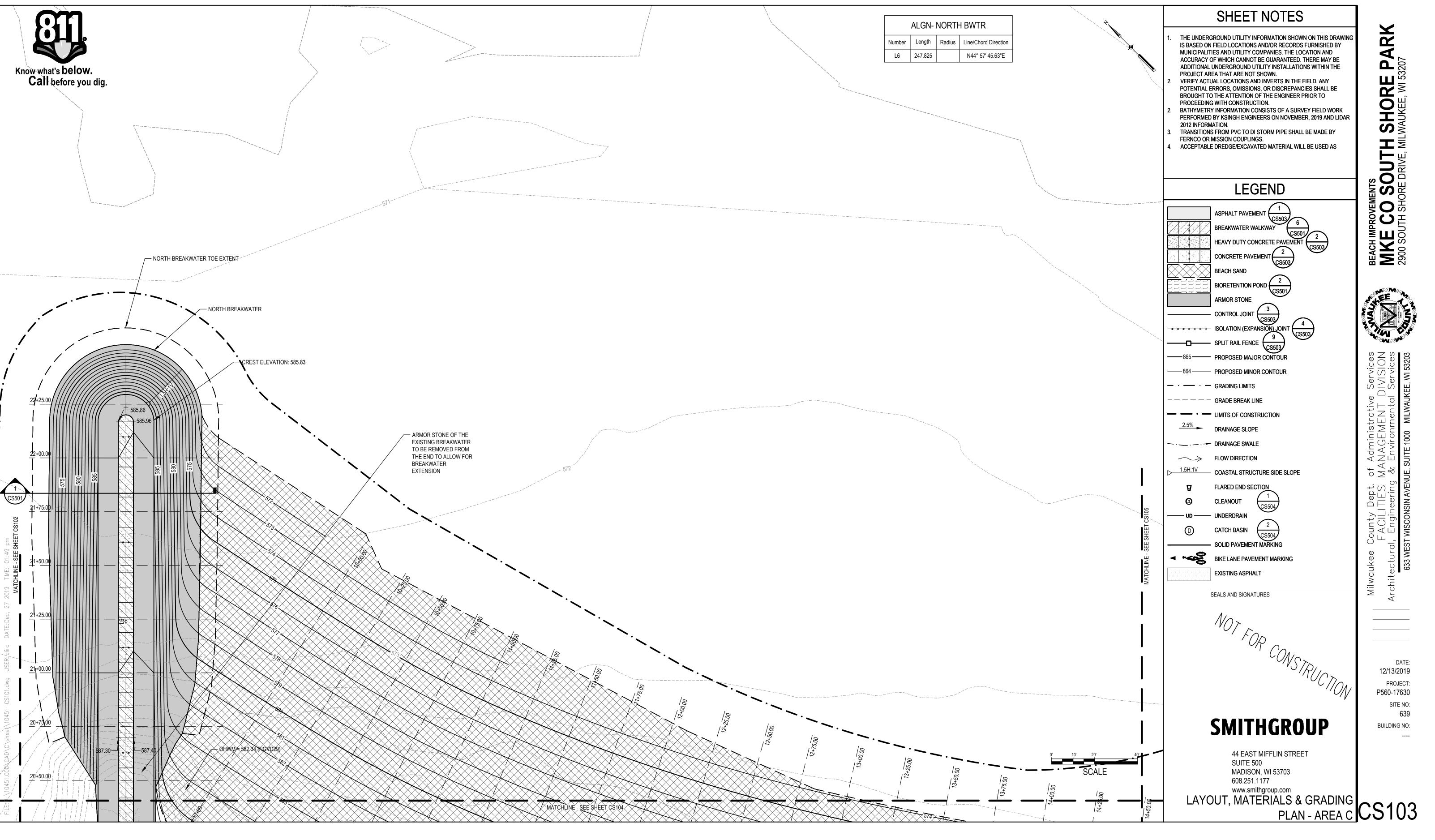
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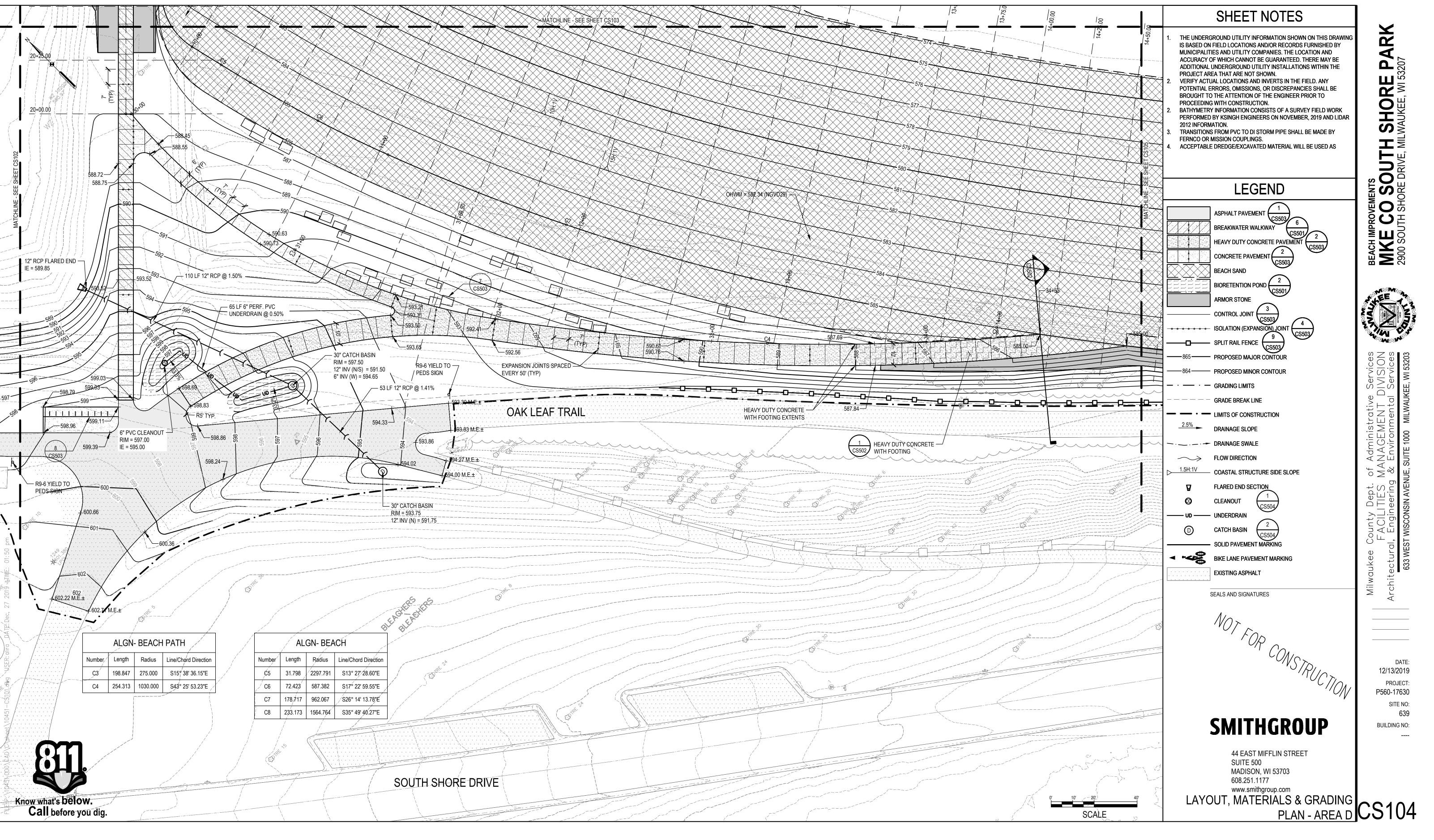


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AANAGEMENT DIVISION & Environmental Services E, SUITE 1000 MILWAUKEE, WI 53203 Milwaukee County Dept. c FACILITIES N rchitectural, Engineering 633 WEST WISCONSIN AVENUE

> 12/13/2019 PROJECT: P560-17630

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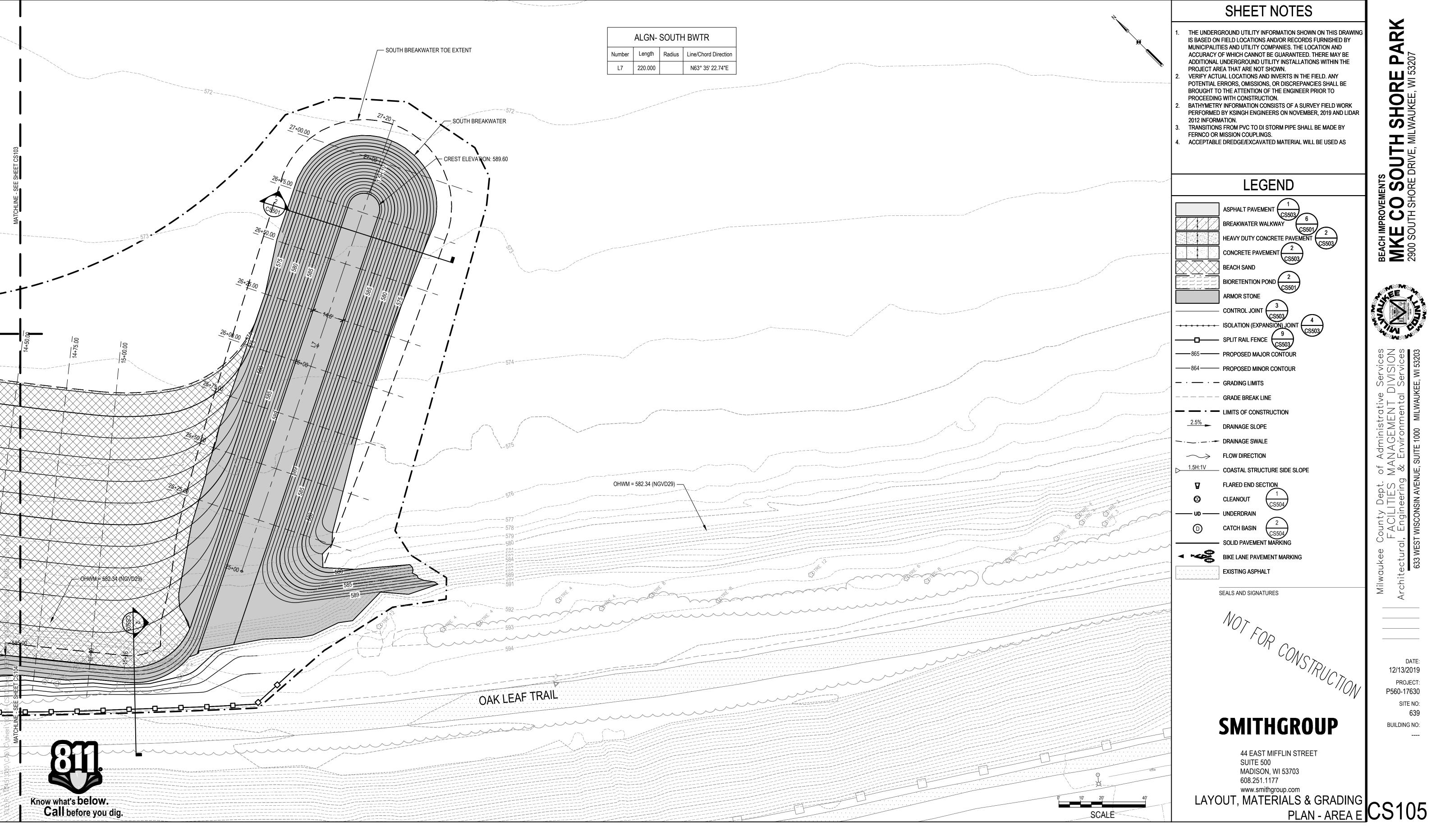


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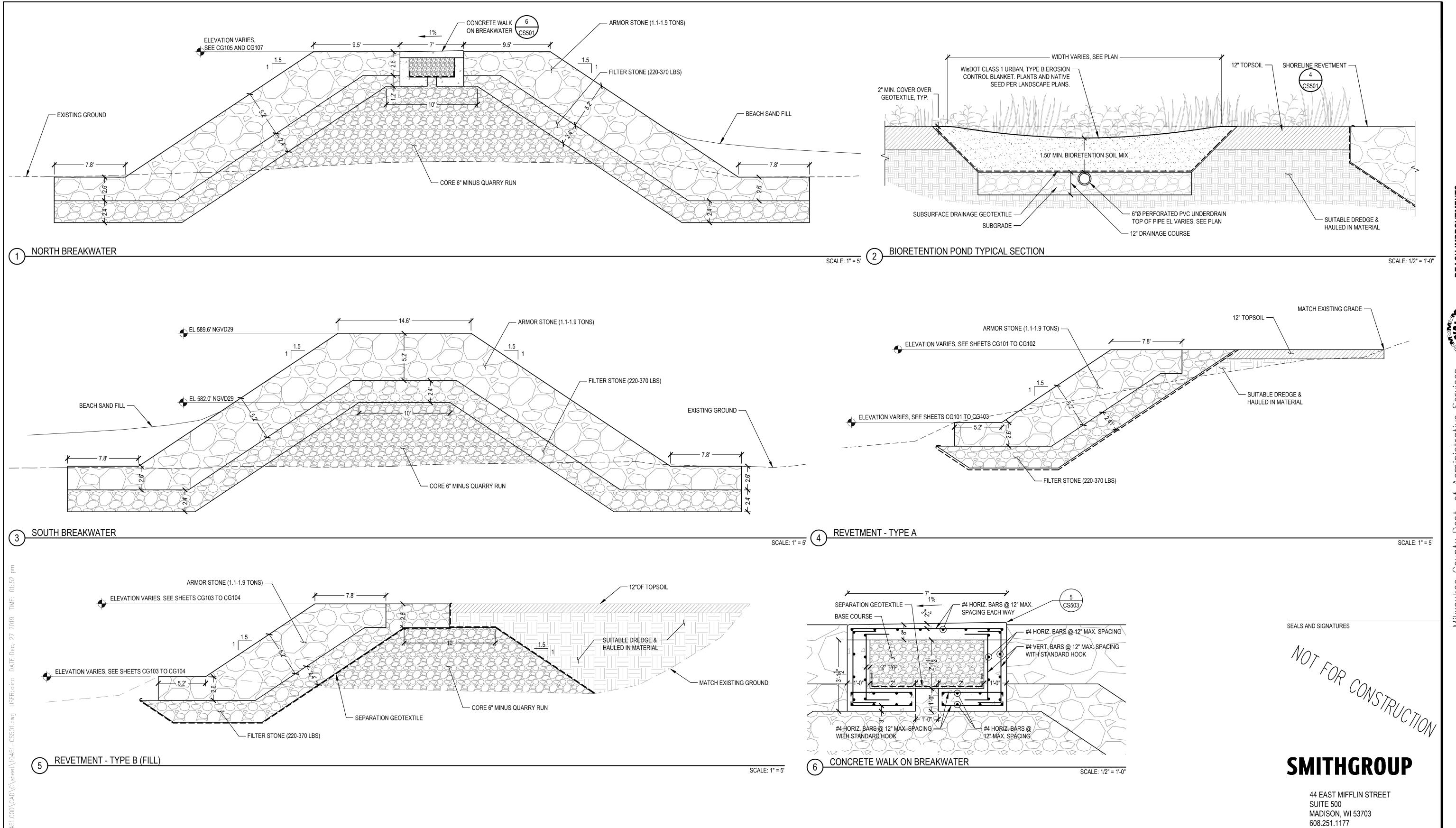
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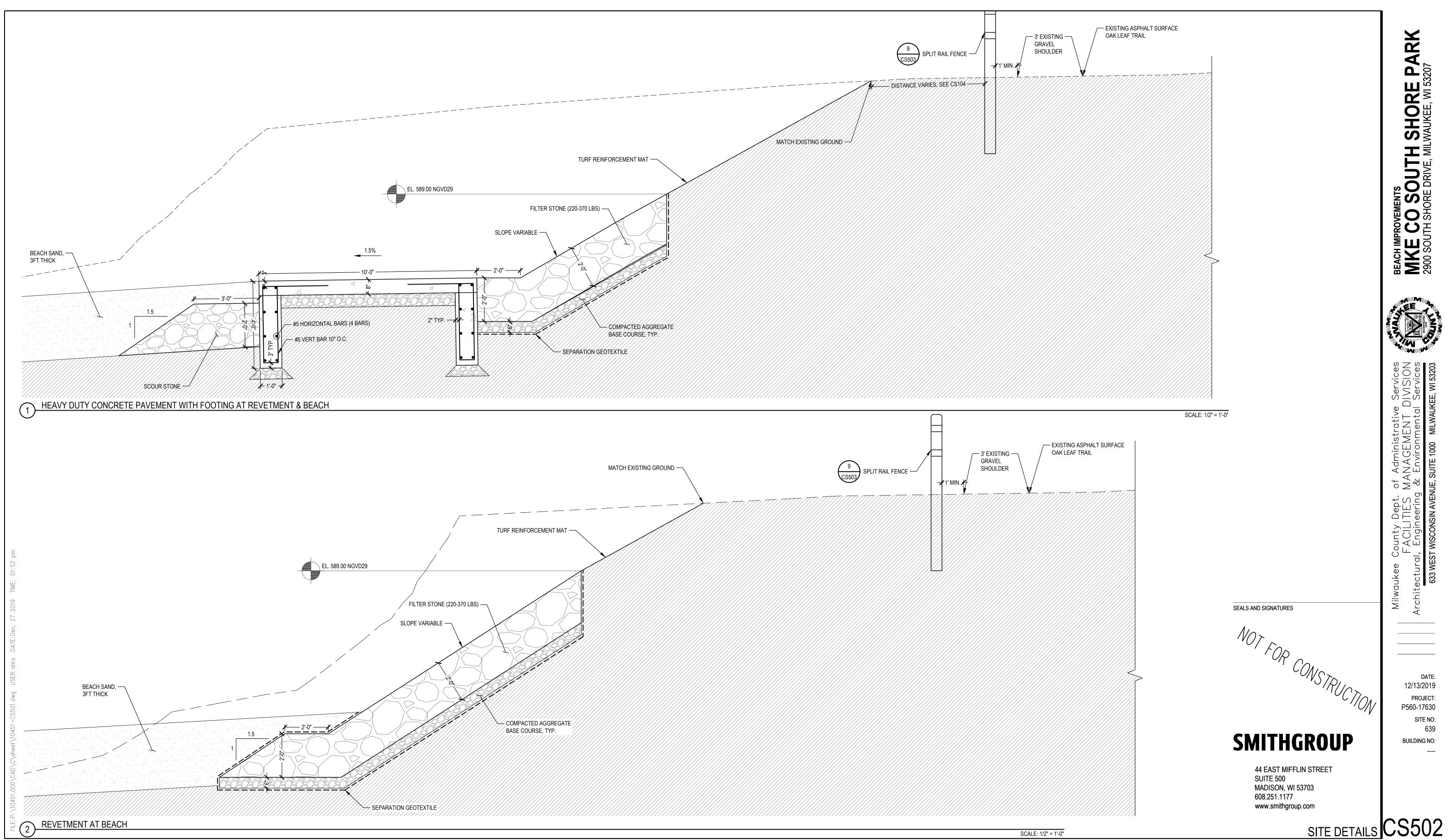
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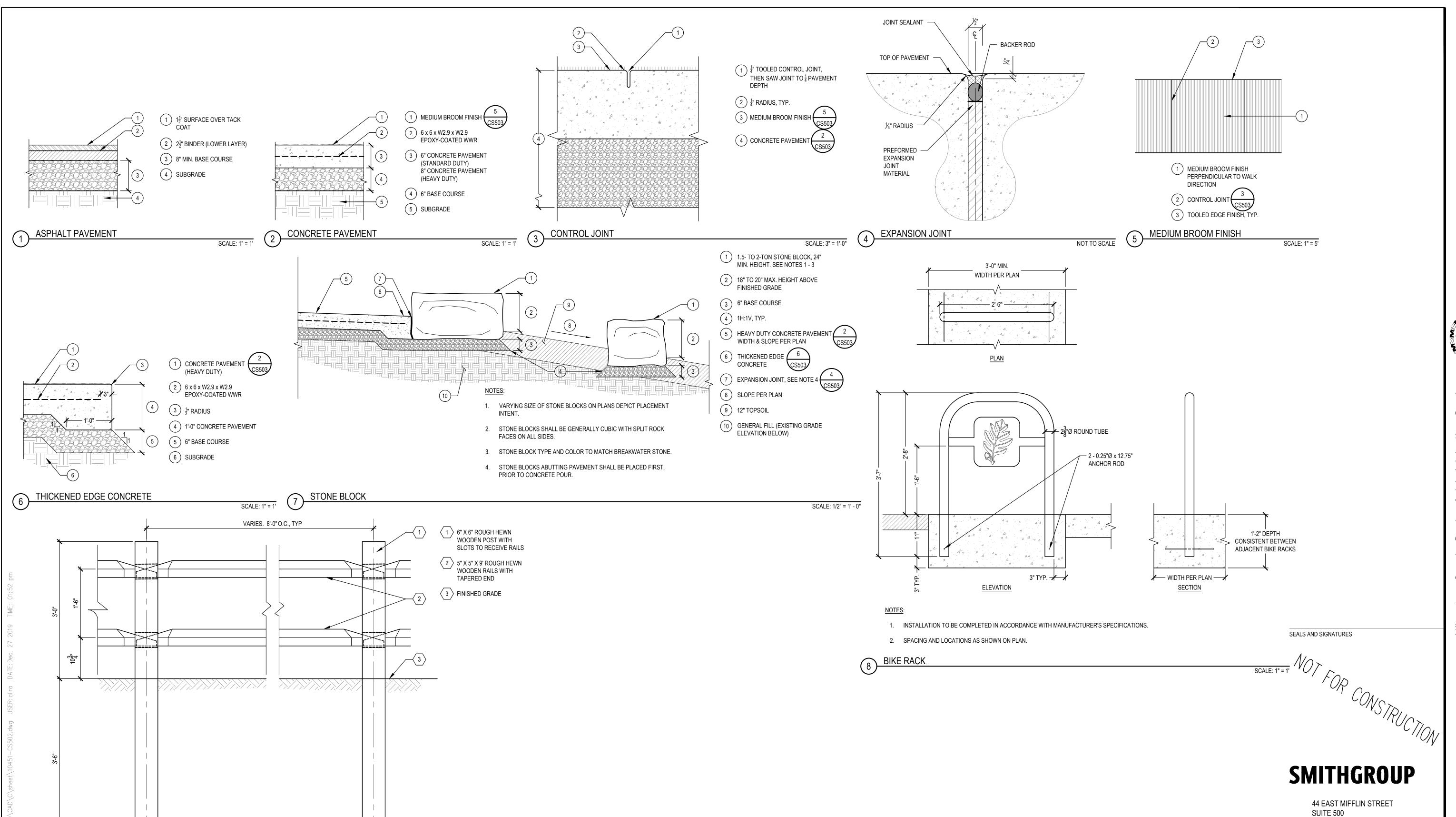
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SITE DETAILS CS503

MADISON, WI 53703

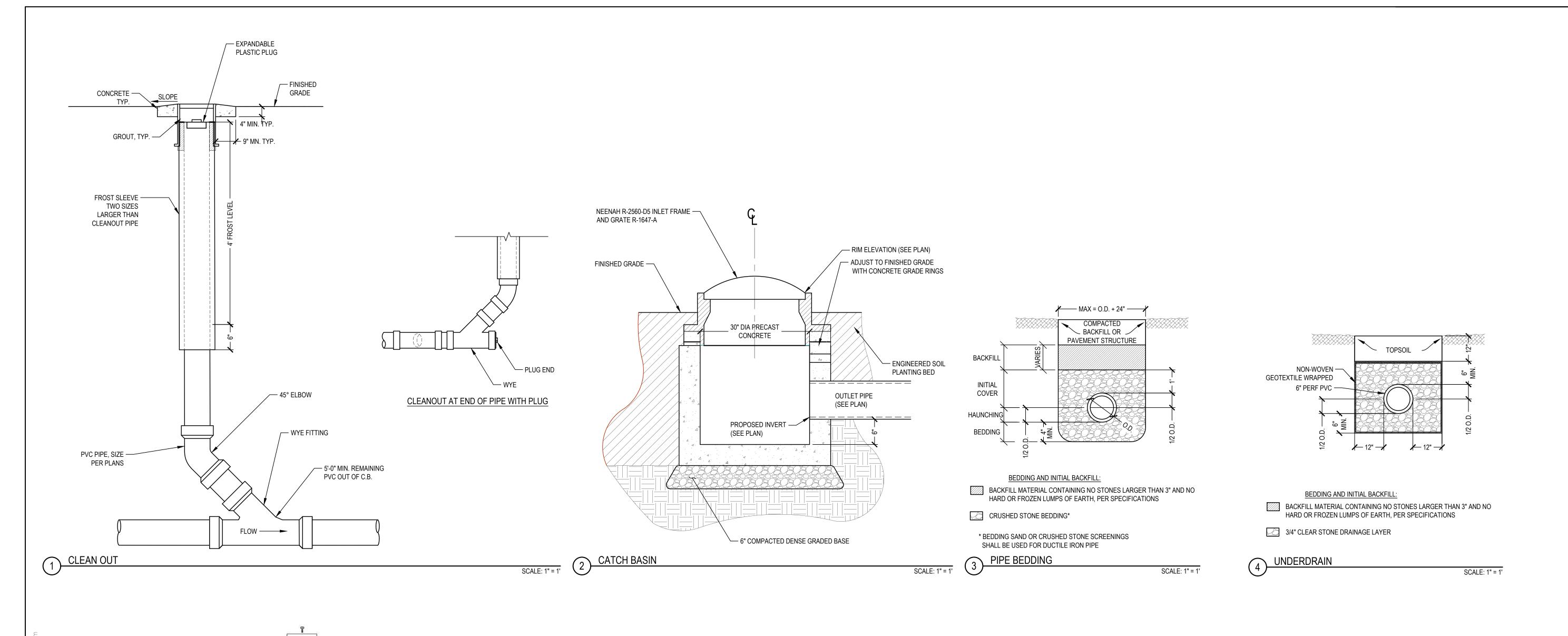
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SCALE: 1" = 1'

9 STANDARD SPLIT RAIL FENCE

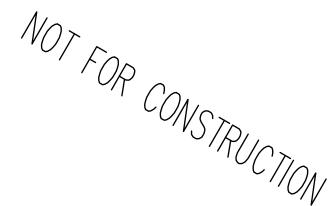


BOLT IS CENTERED UNDER PUSH BUTTON

NOT TO SCALE

5 FOOT WASH

SEALS AND SIGNATURES



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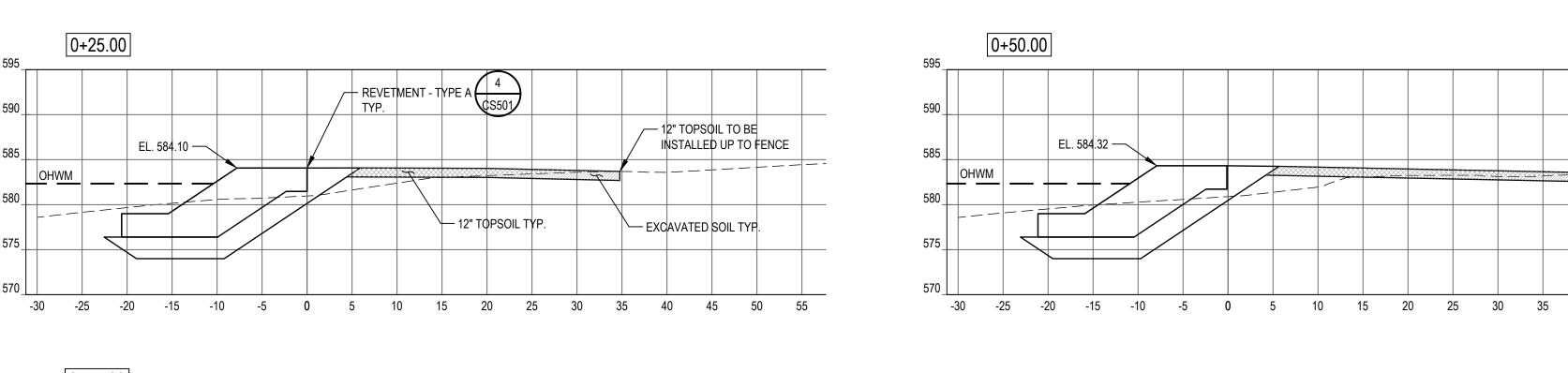
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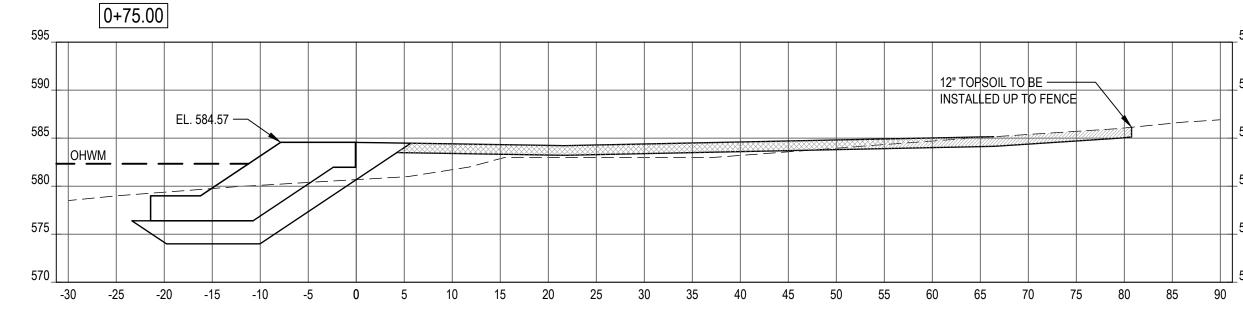
UTILITY DETAILS CS504

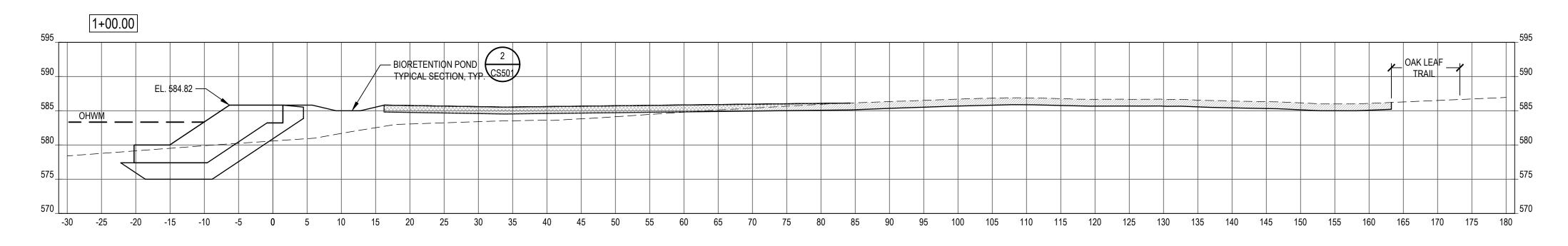
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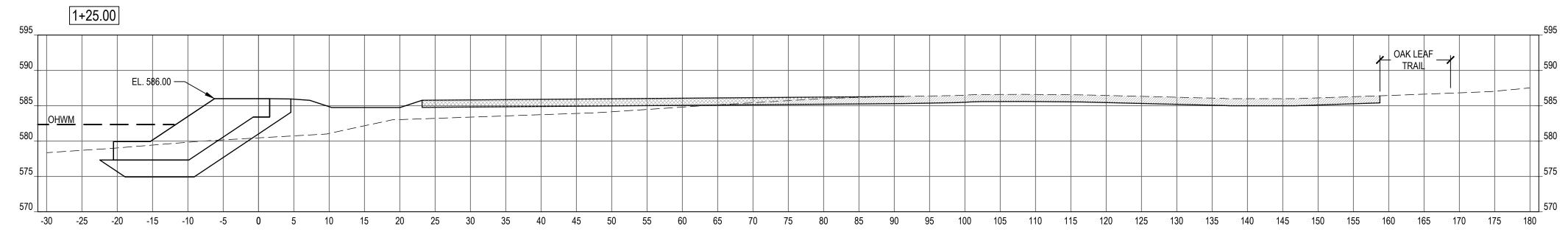
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NORTH REVETMENT CROSS
SECTIONS CG101

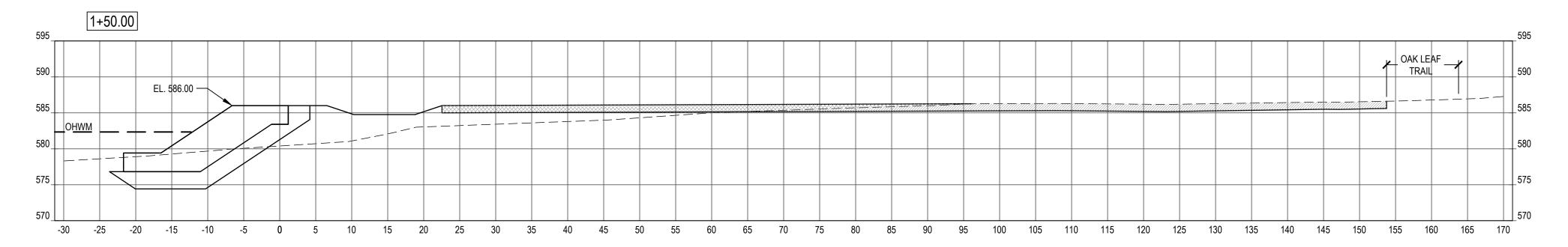






12" TOPSOIL TO BE INSTALLED UP TO FENCE







12/13/2019

P560-17630

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10' 20'
SEALS AND SIGNATURES

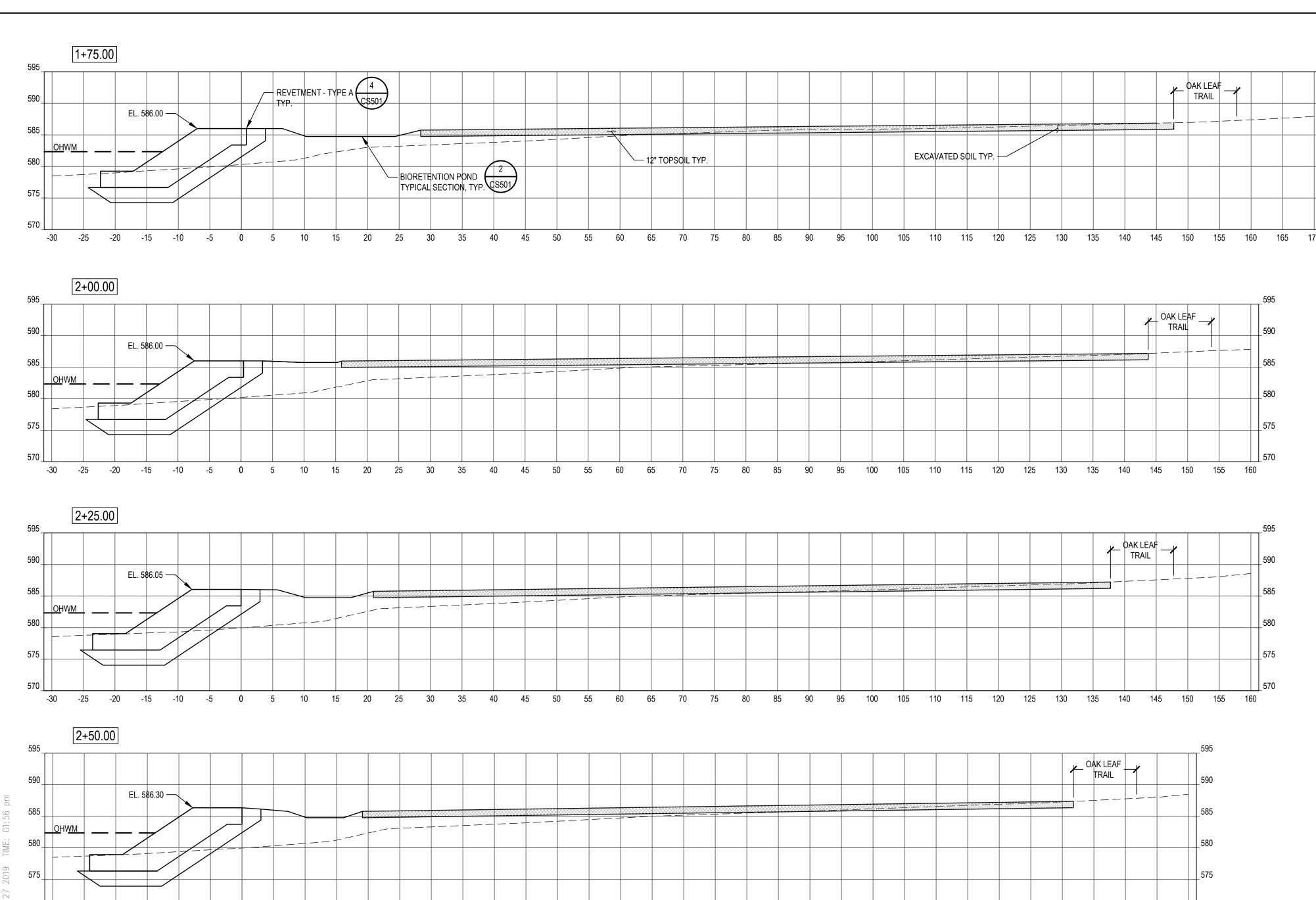
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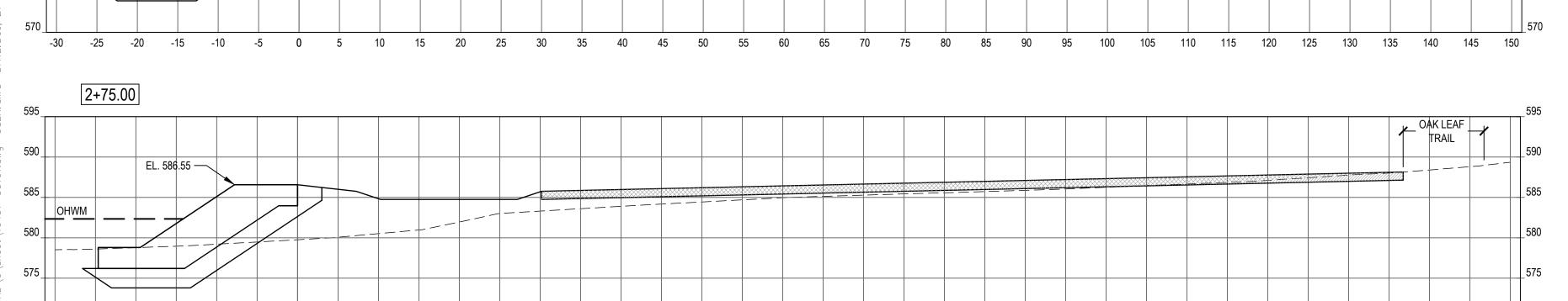
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SECTIONS CG102





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SITE NO:

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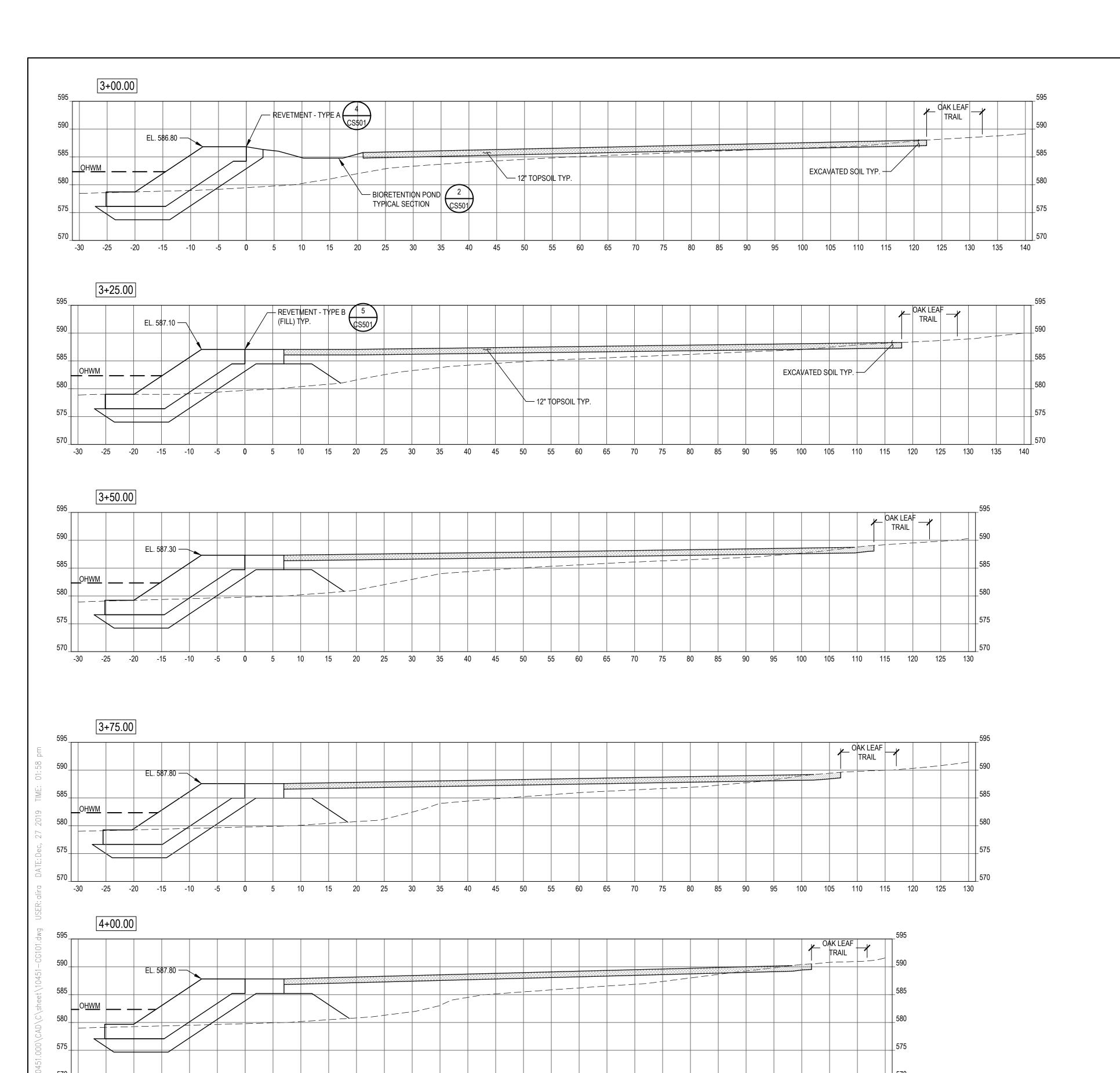
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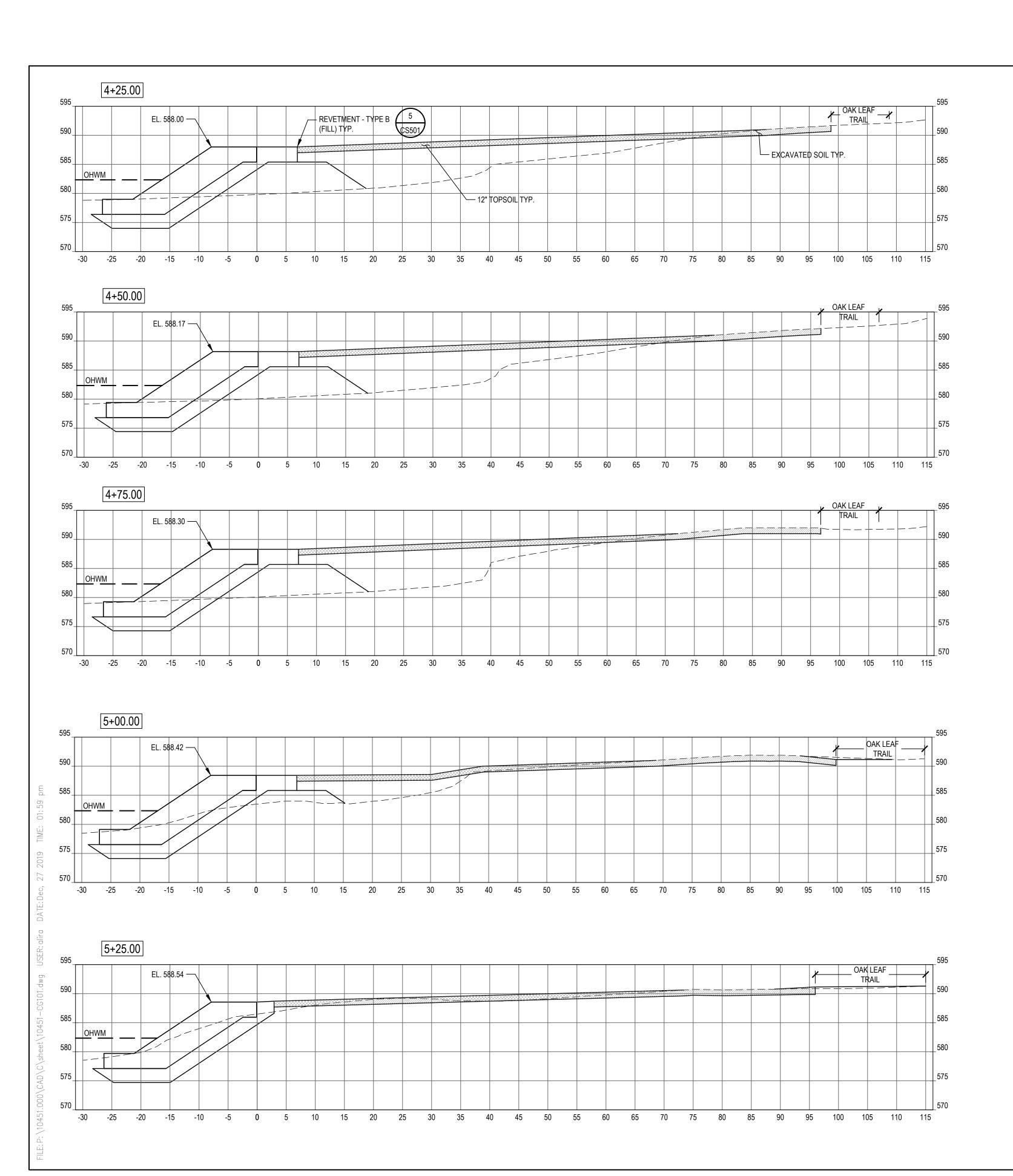
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BUILDING NO:

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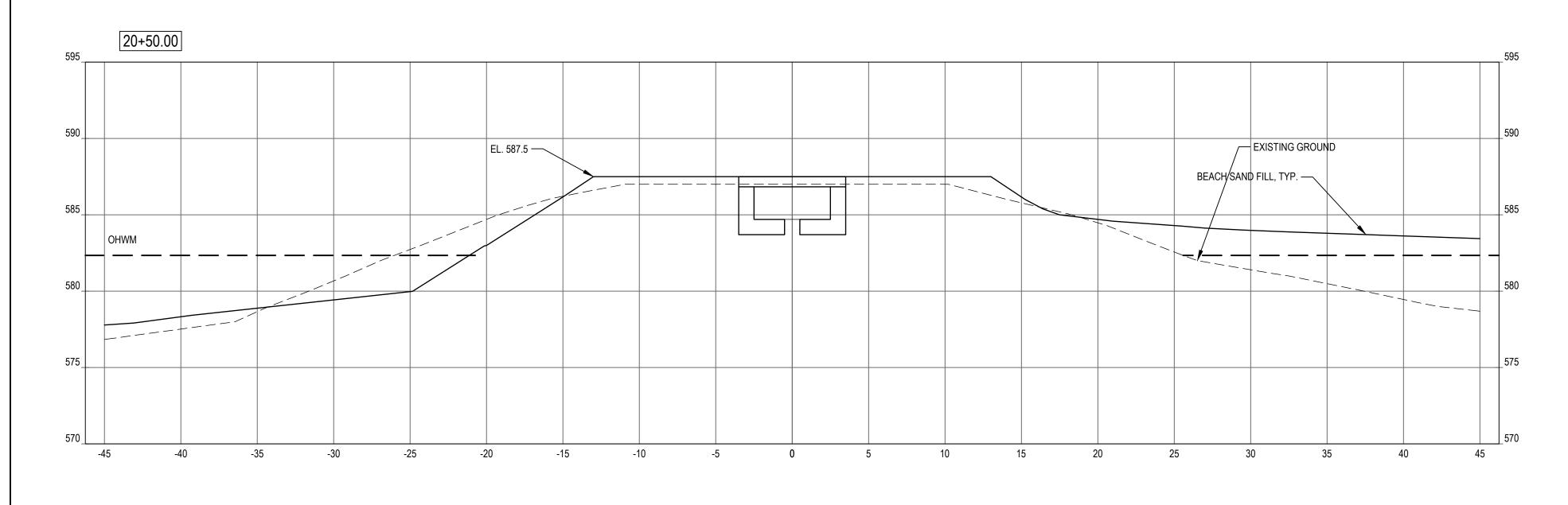
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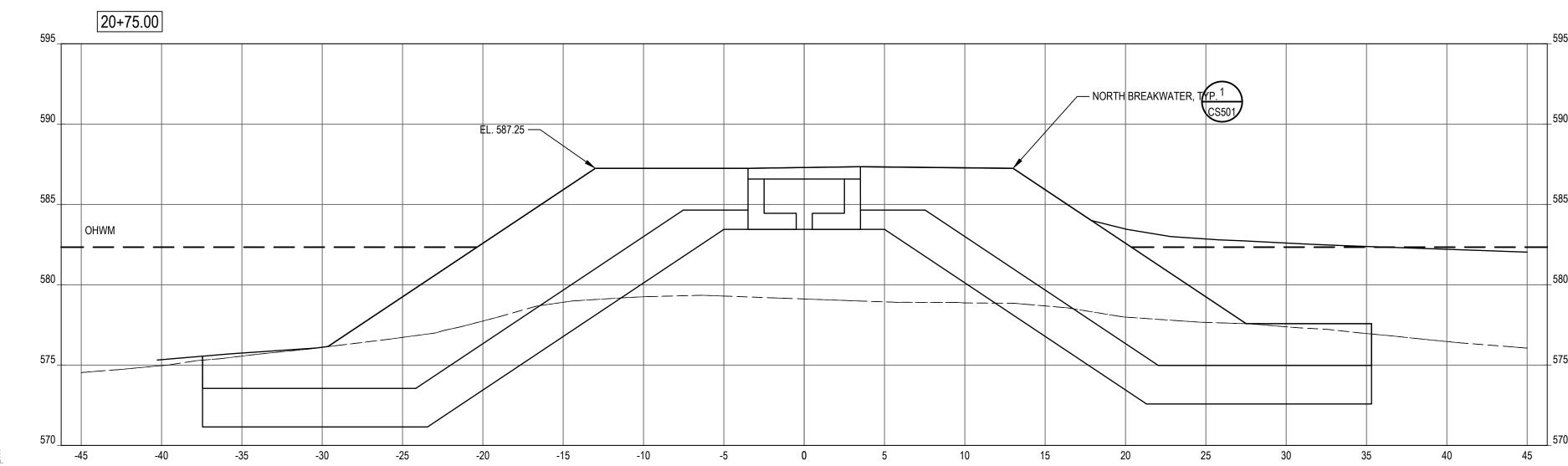
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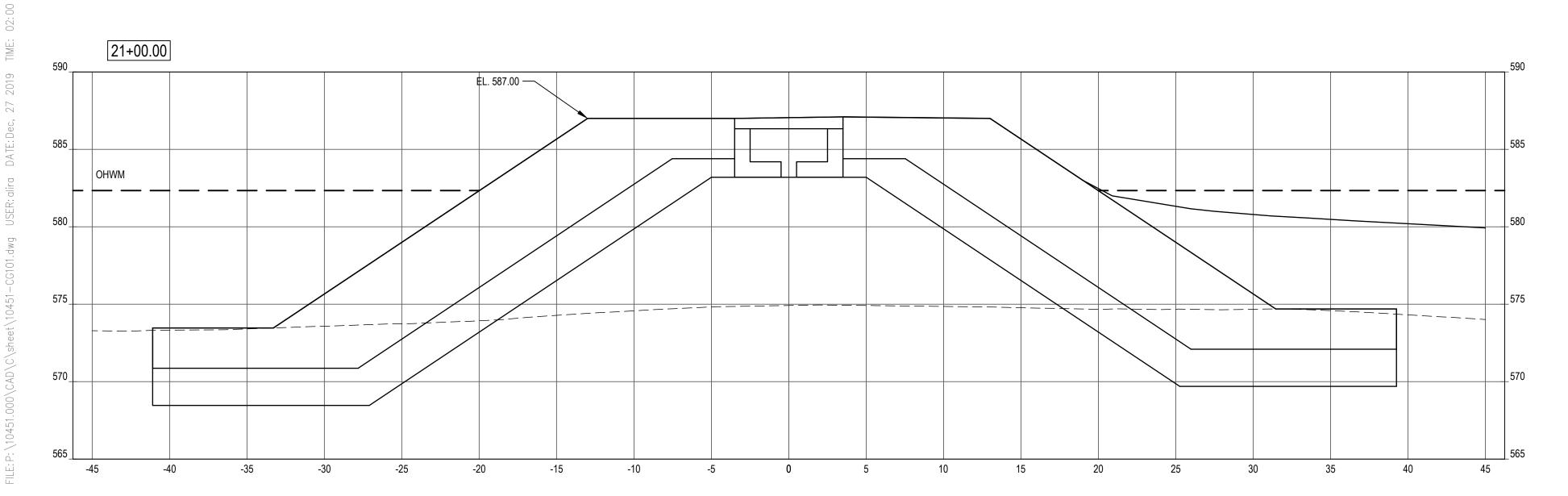
NORTH BREAKWATER
CROSS SECTIONS

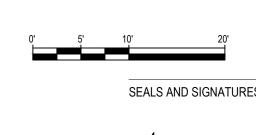
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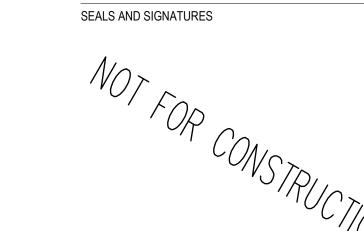












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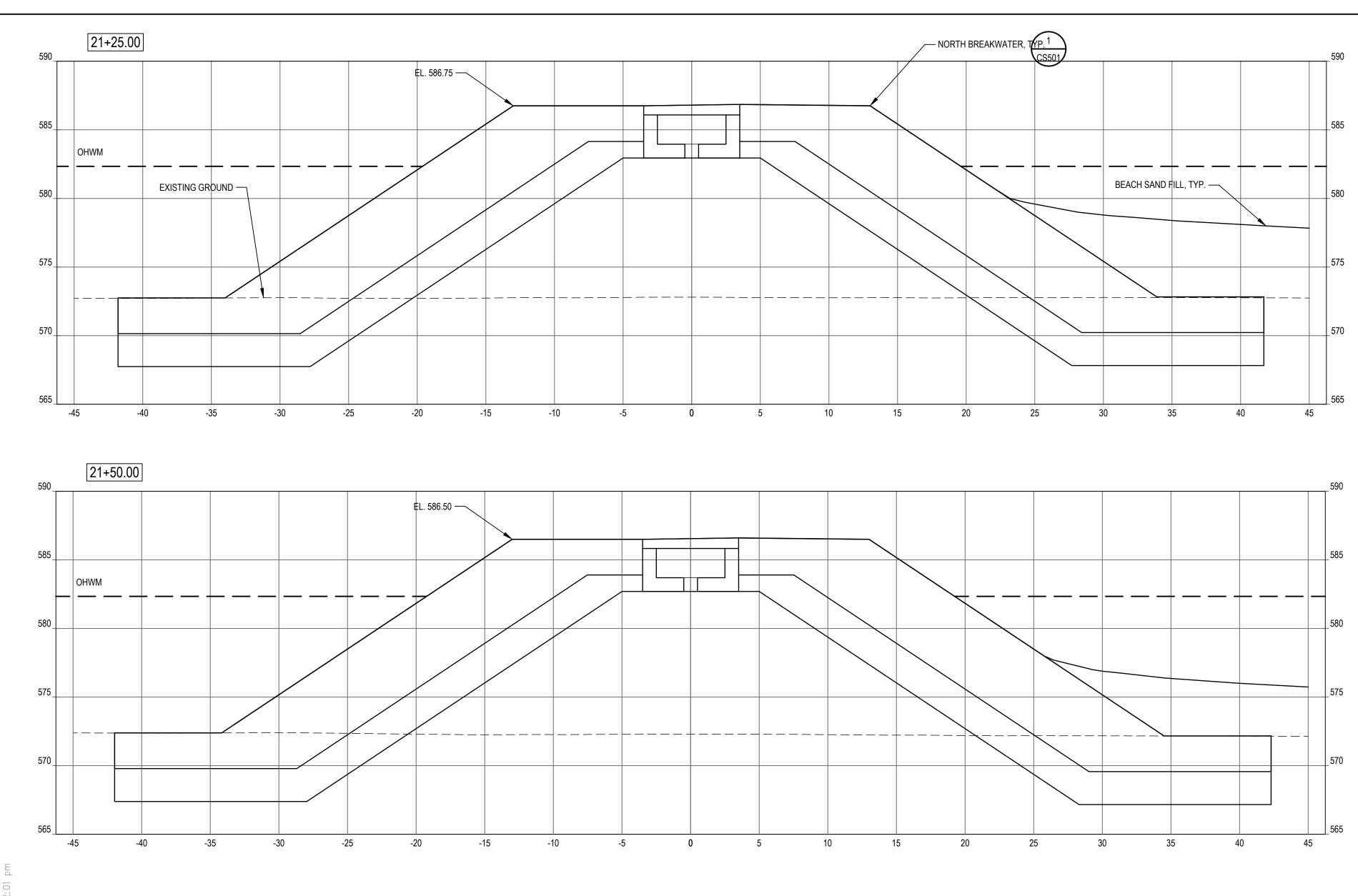


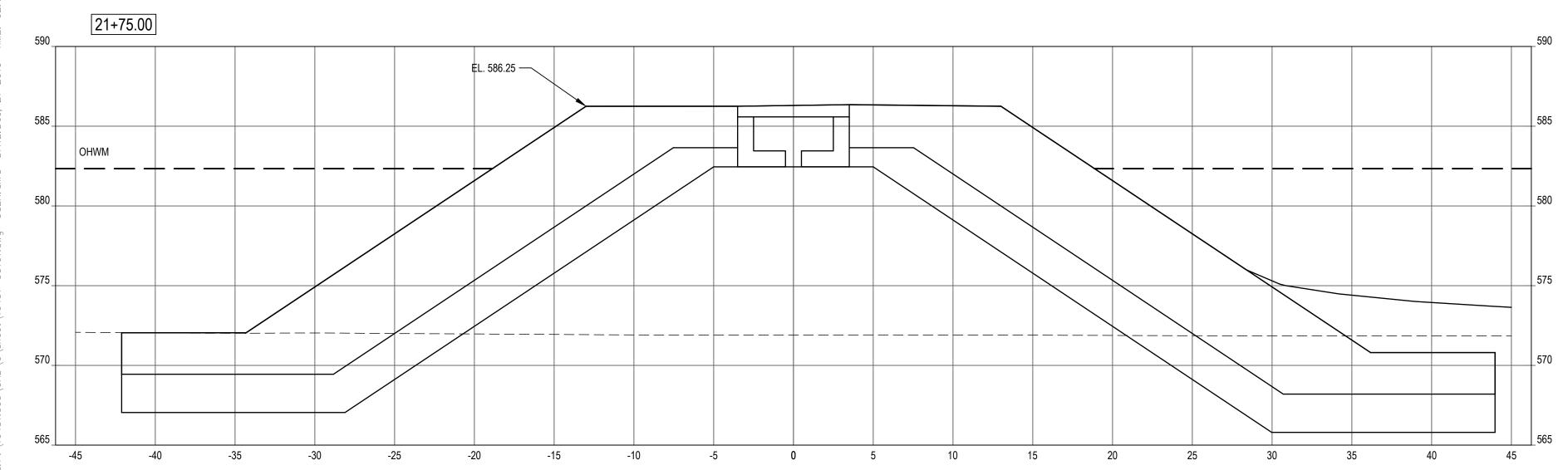
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SEALS AND SIGNATURES





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SITE NO: **639**

BUILDING NO:

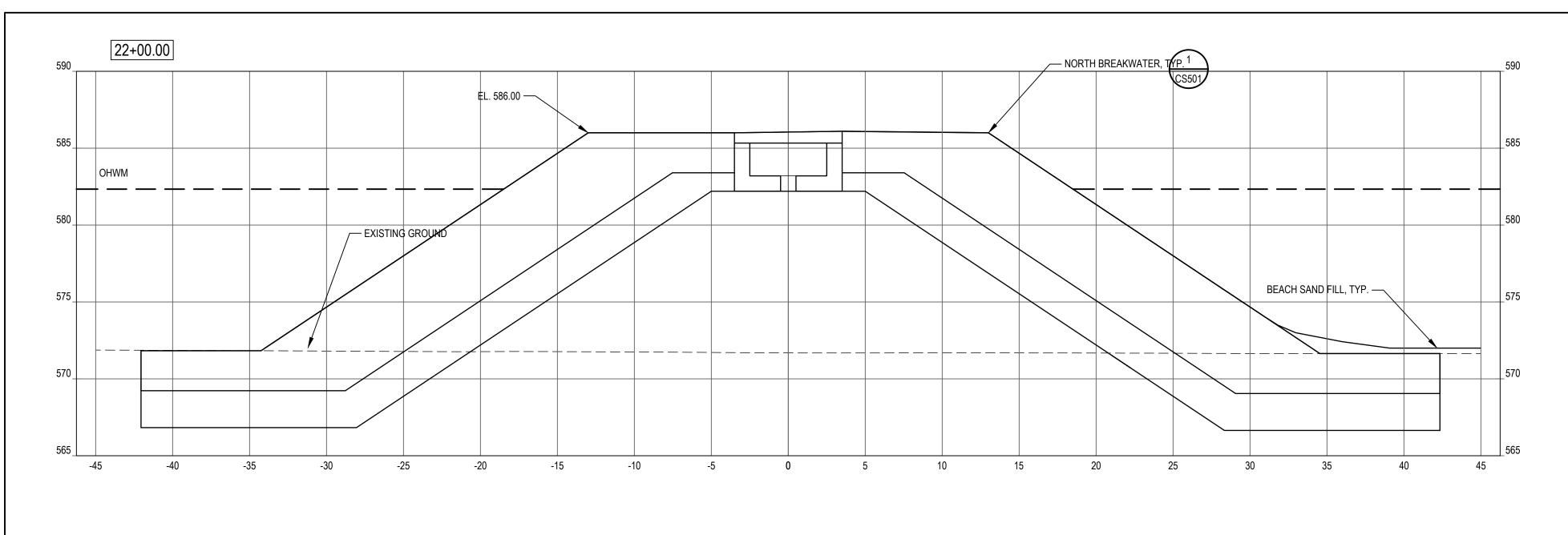
SEALS AND SIGNATURES

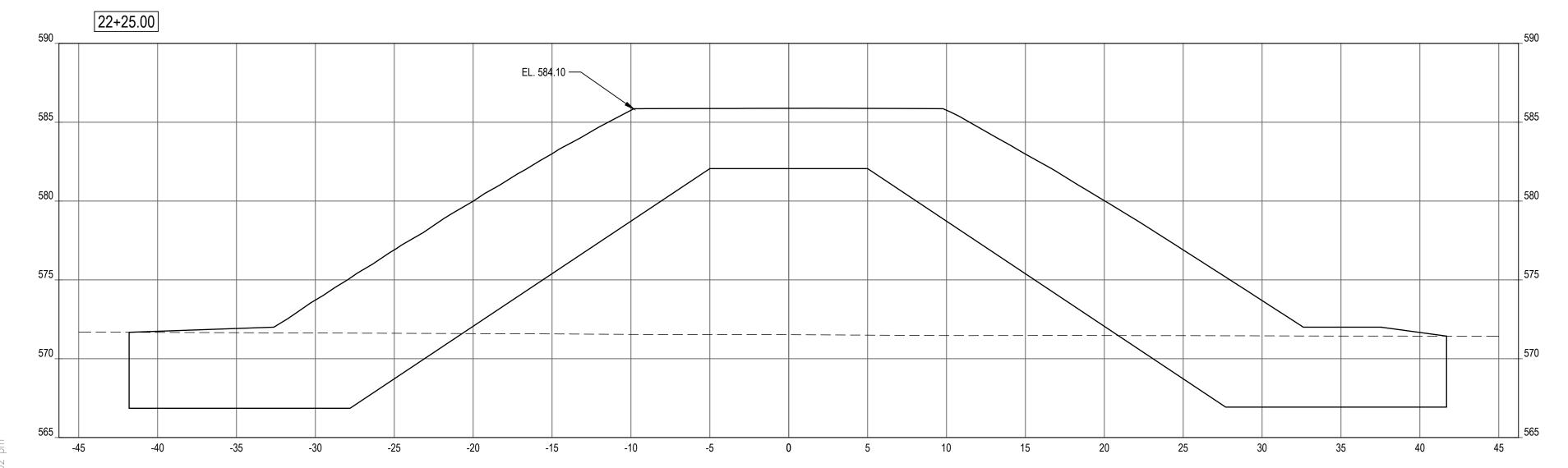
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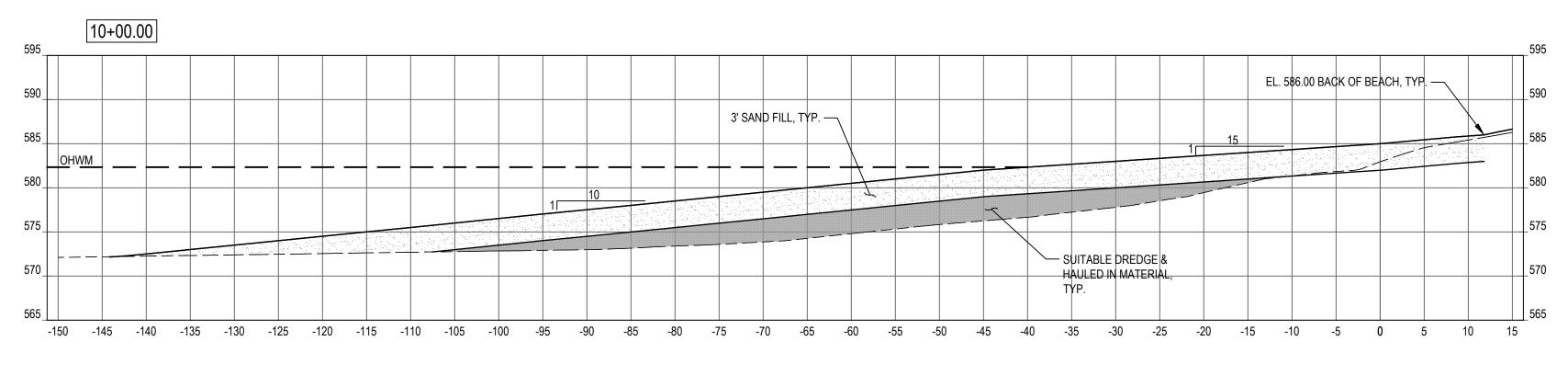
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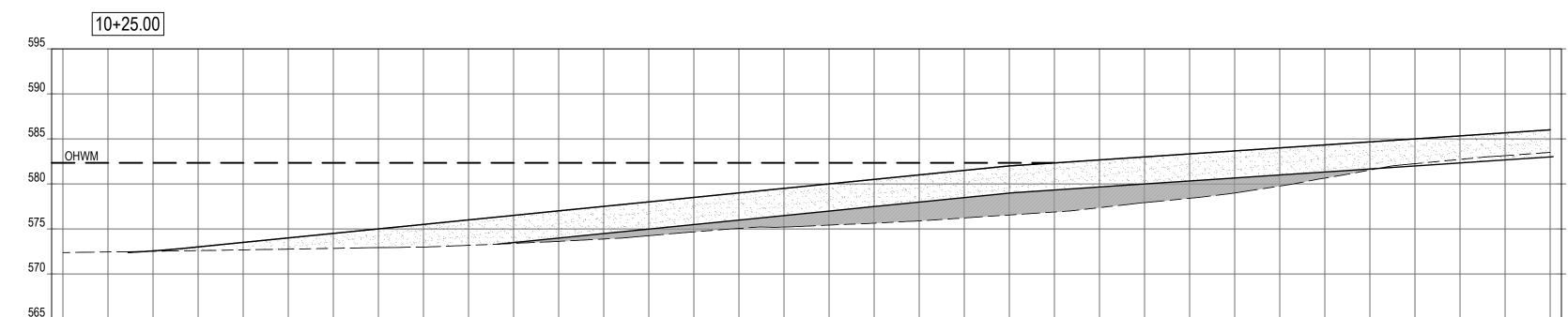
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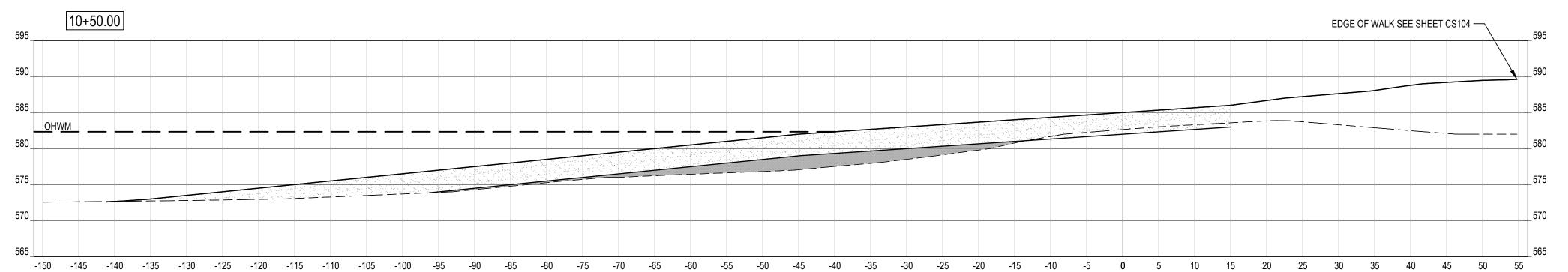
SEALS AND SIGNATURES

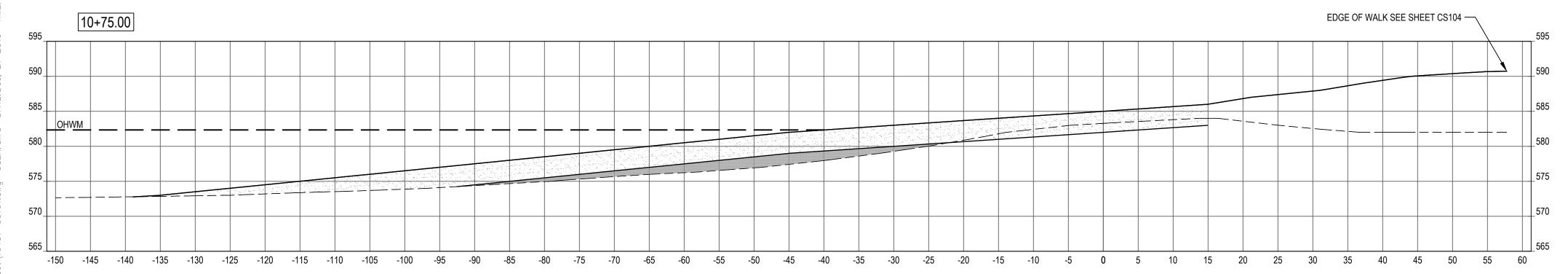
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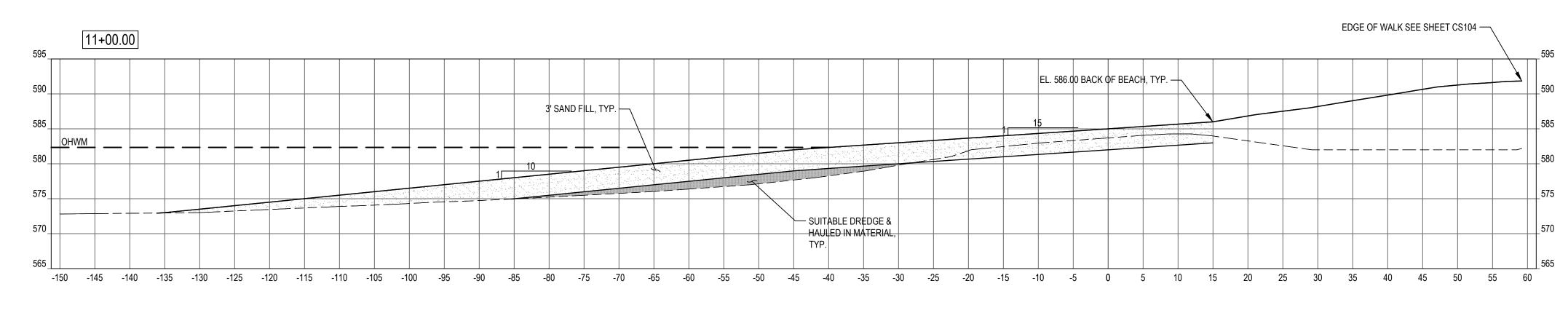


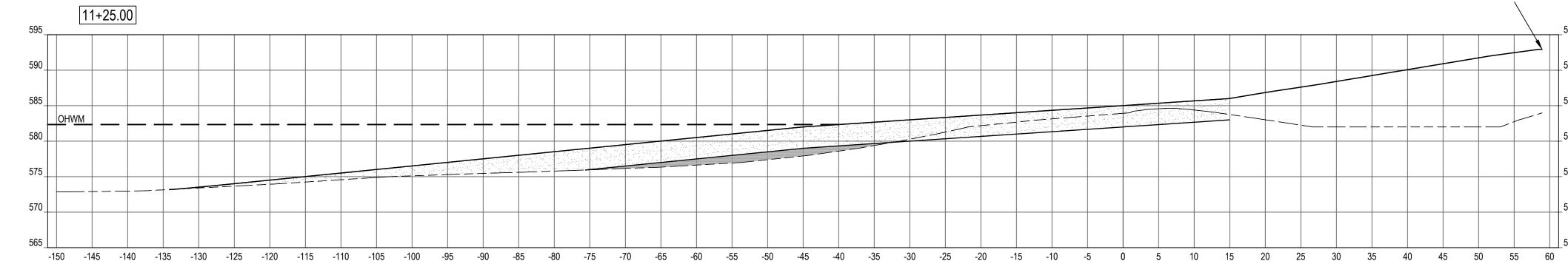


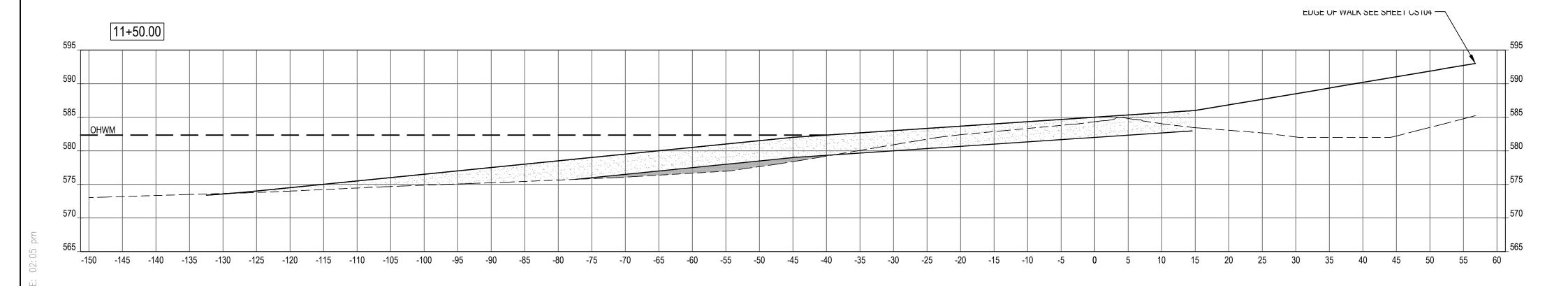
NOTE: SEE CS502 FOR BEACH AND REVETMENT.

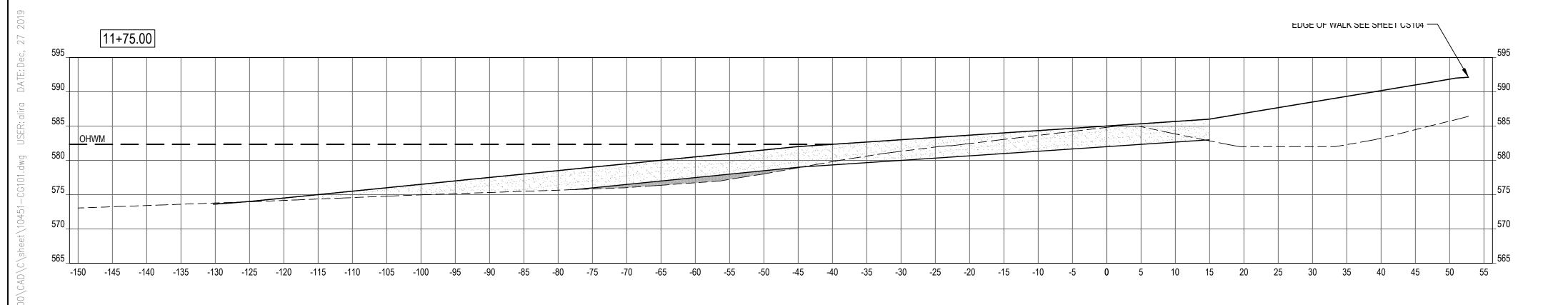
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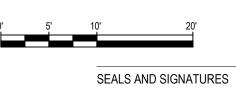
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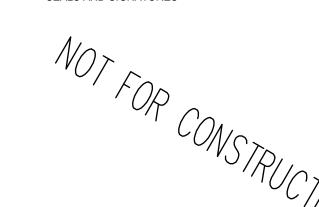












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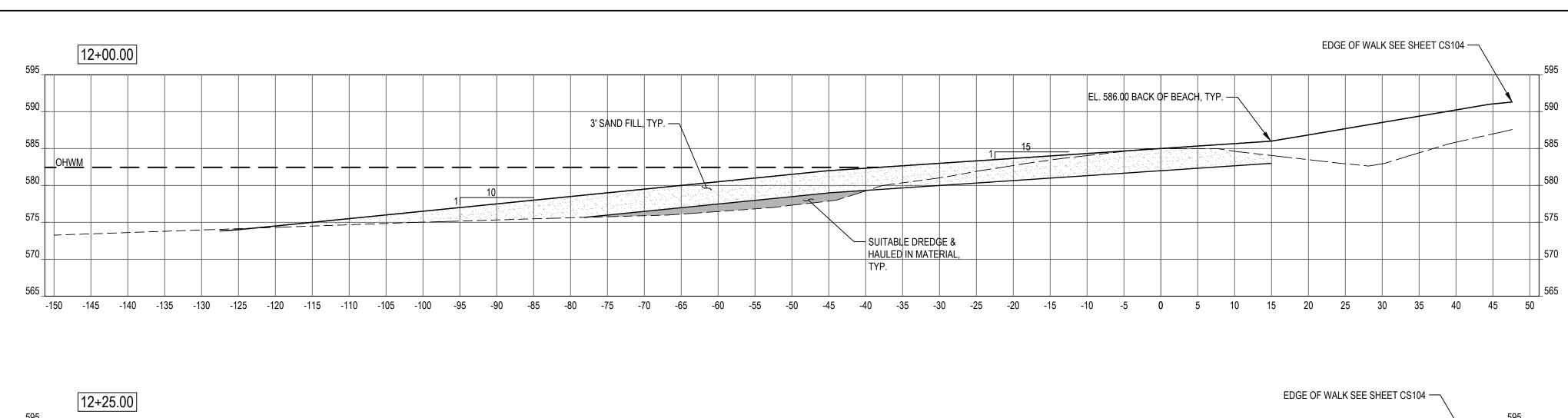
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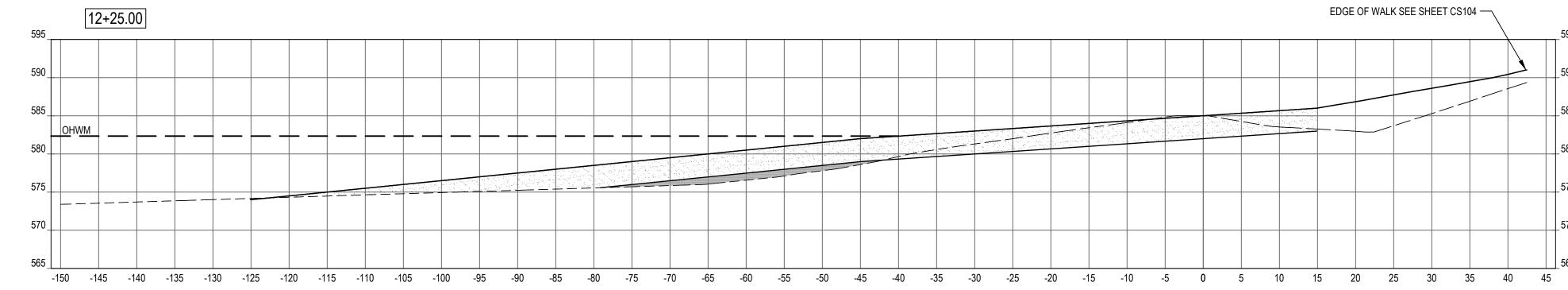
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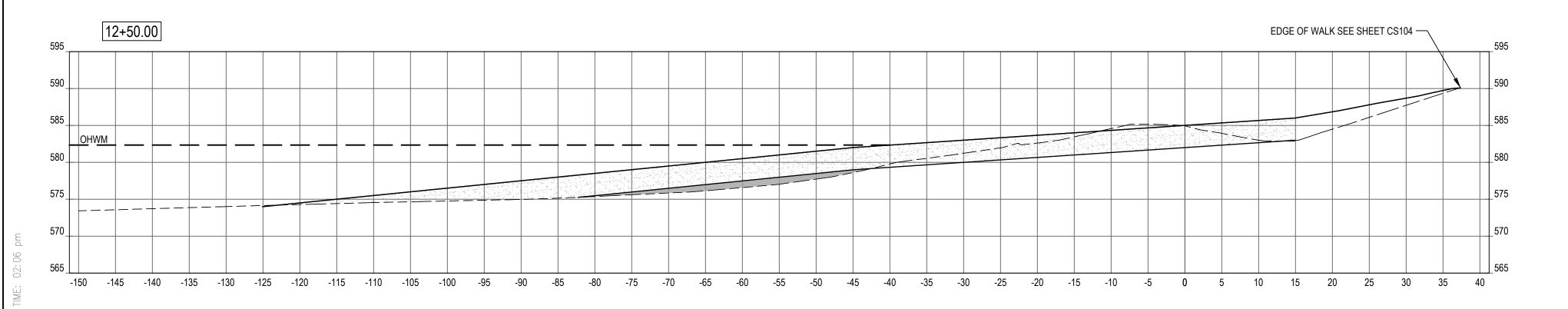
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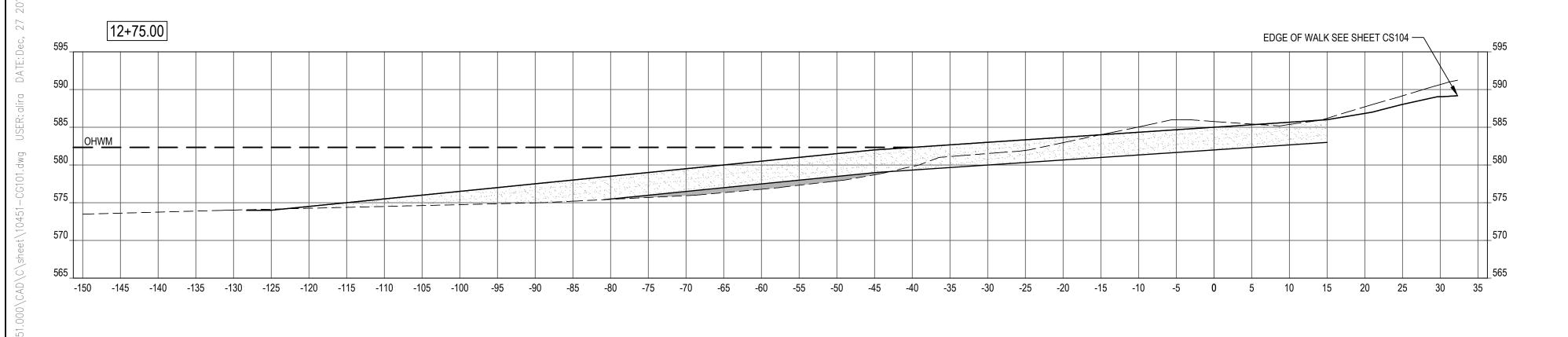
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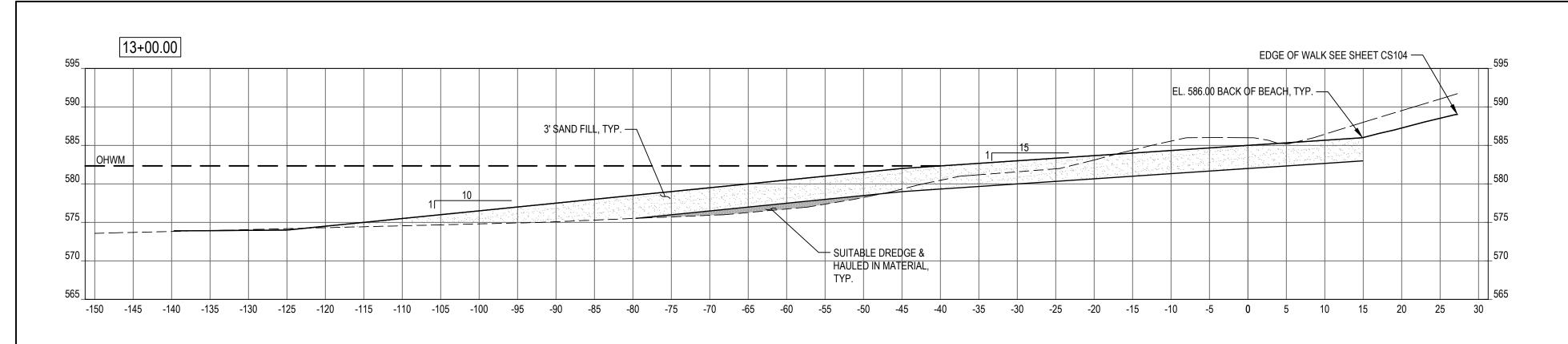
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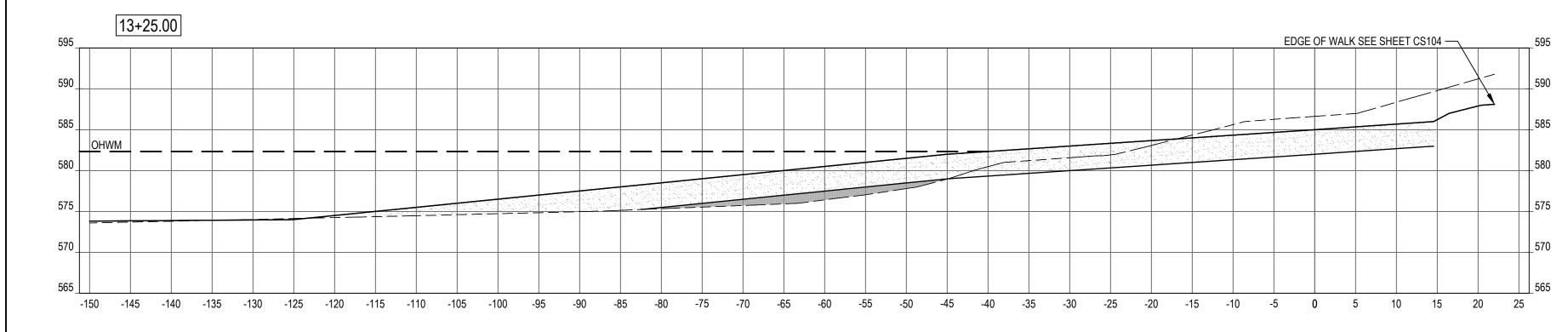
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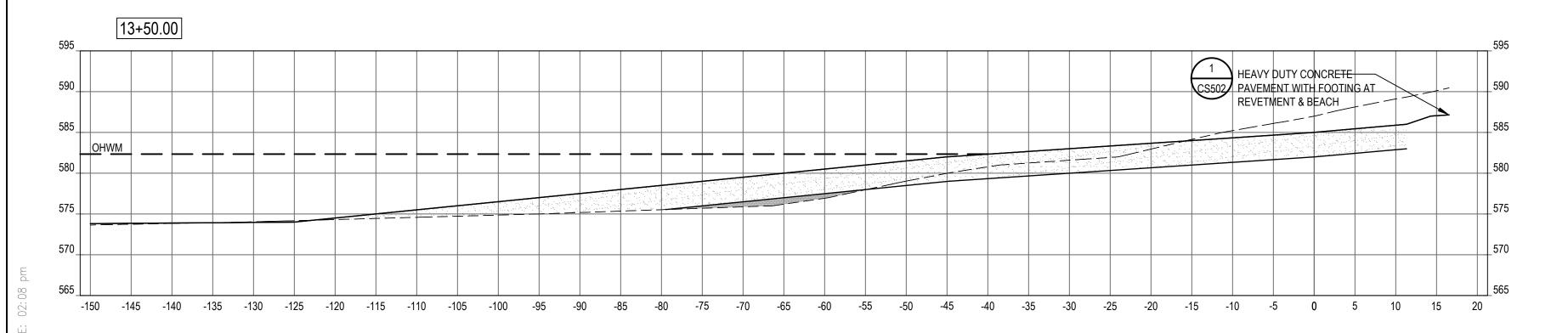
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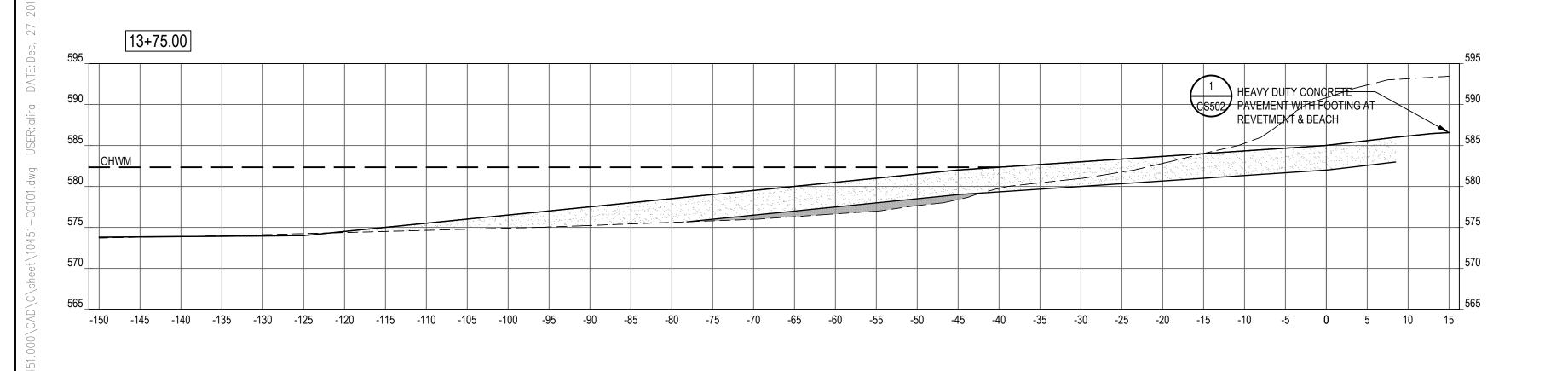
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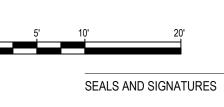
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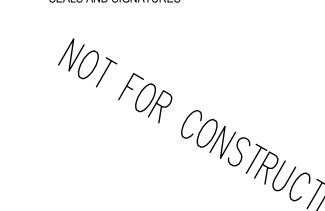












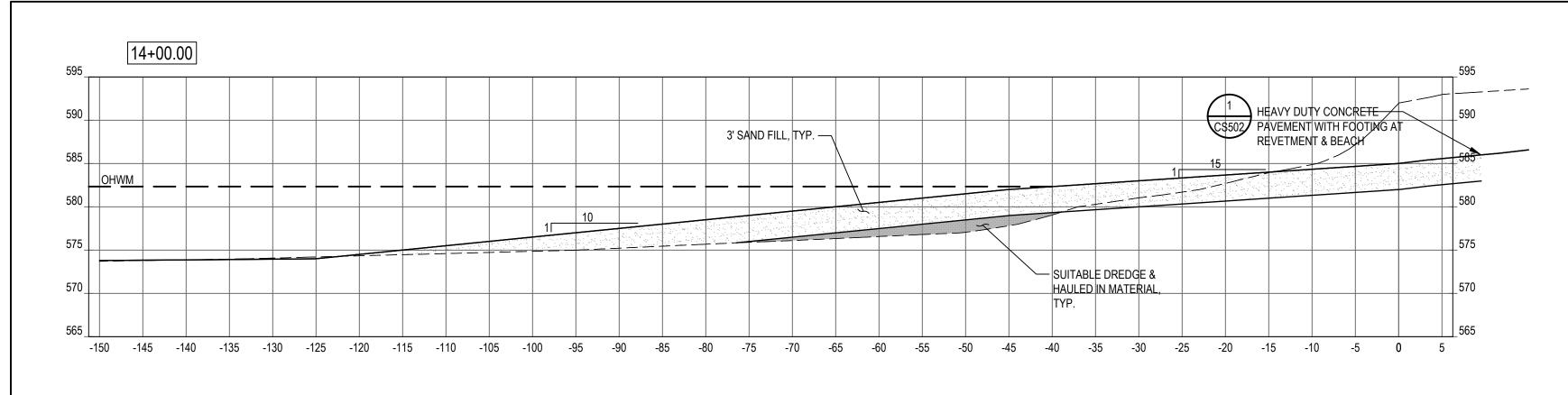
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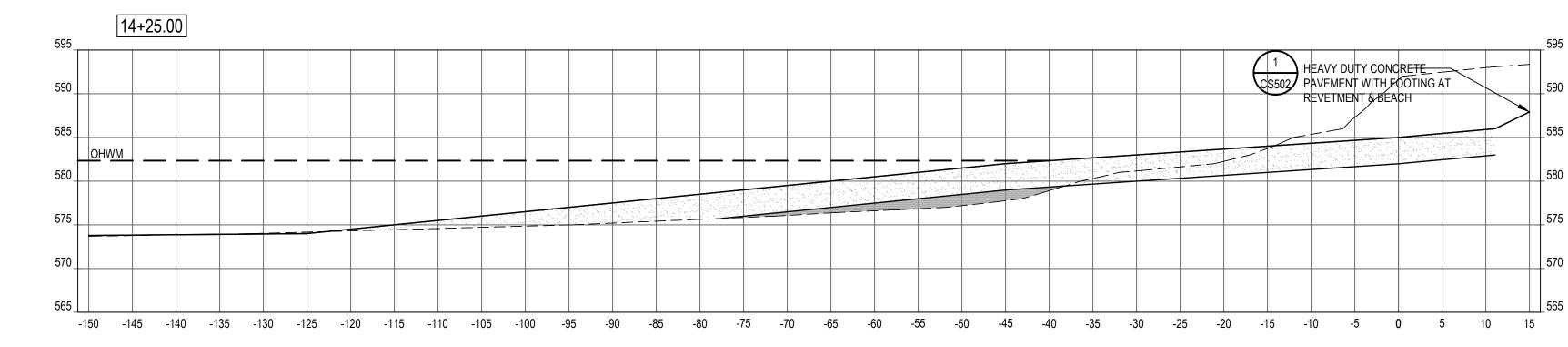
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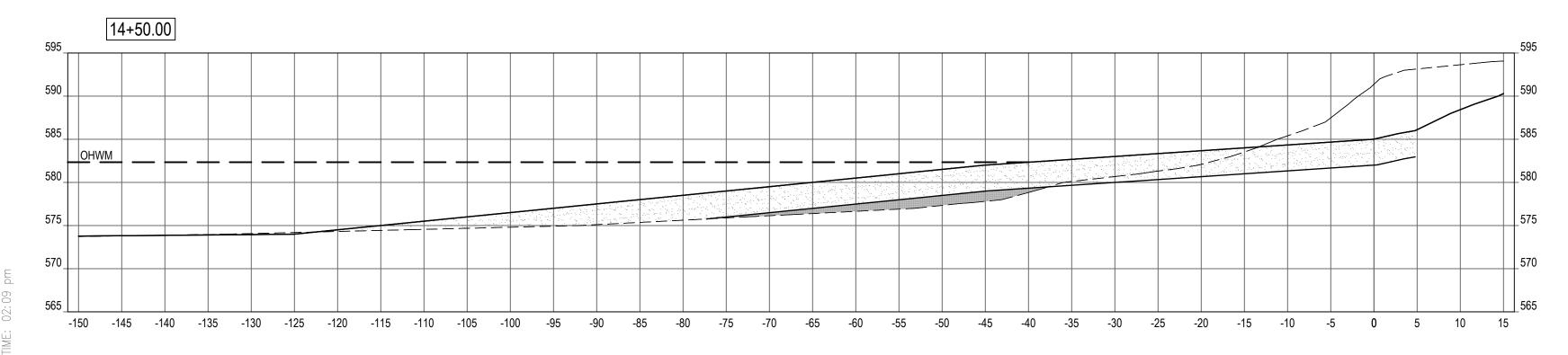
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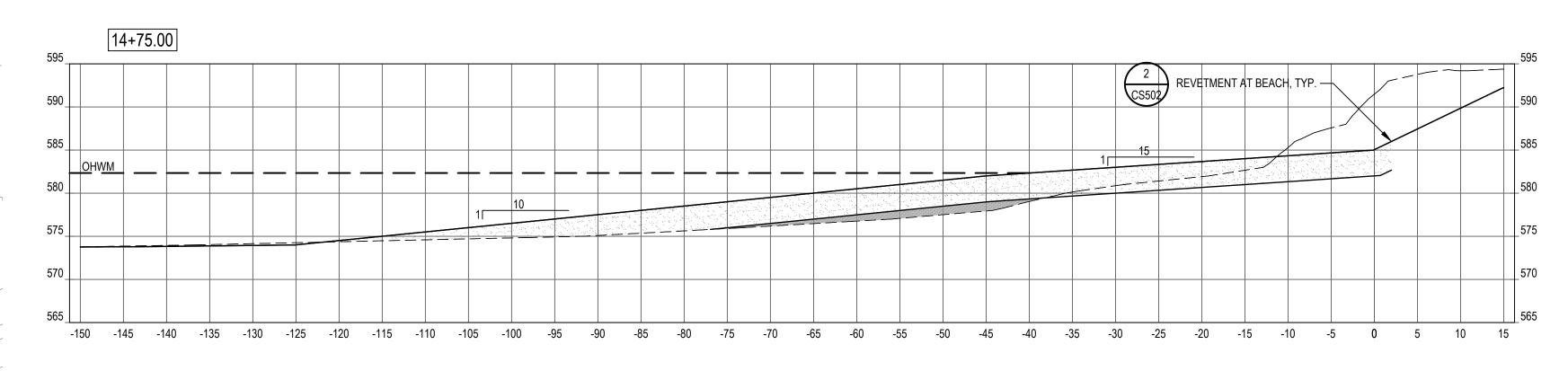
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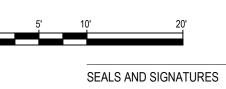
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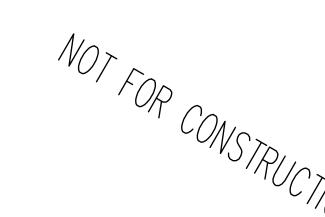












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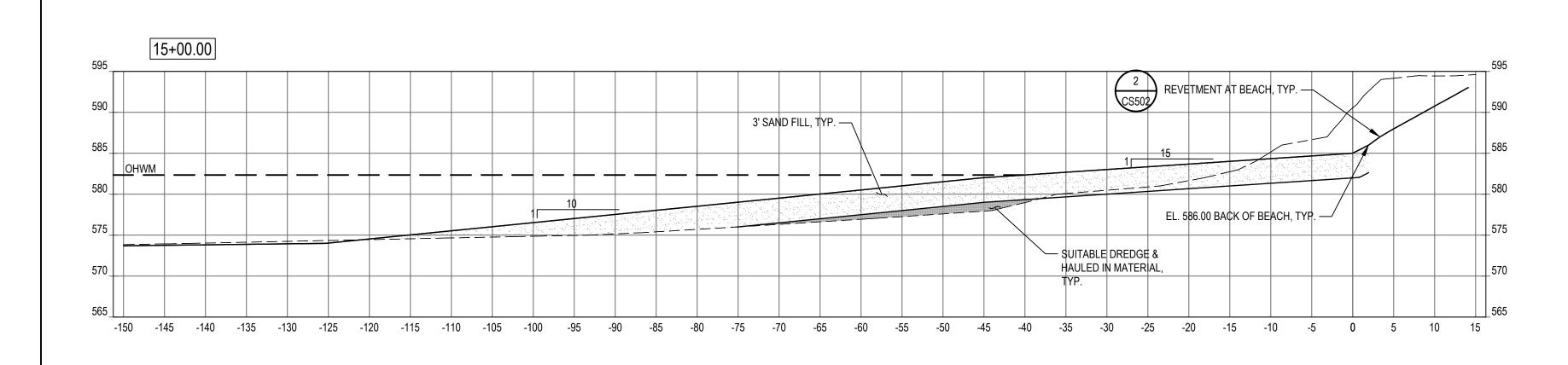
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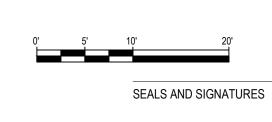
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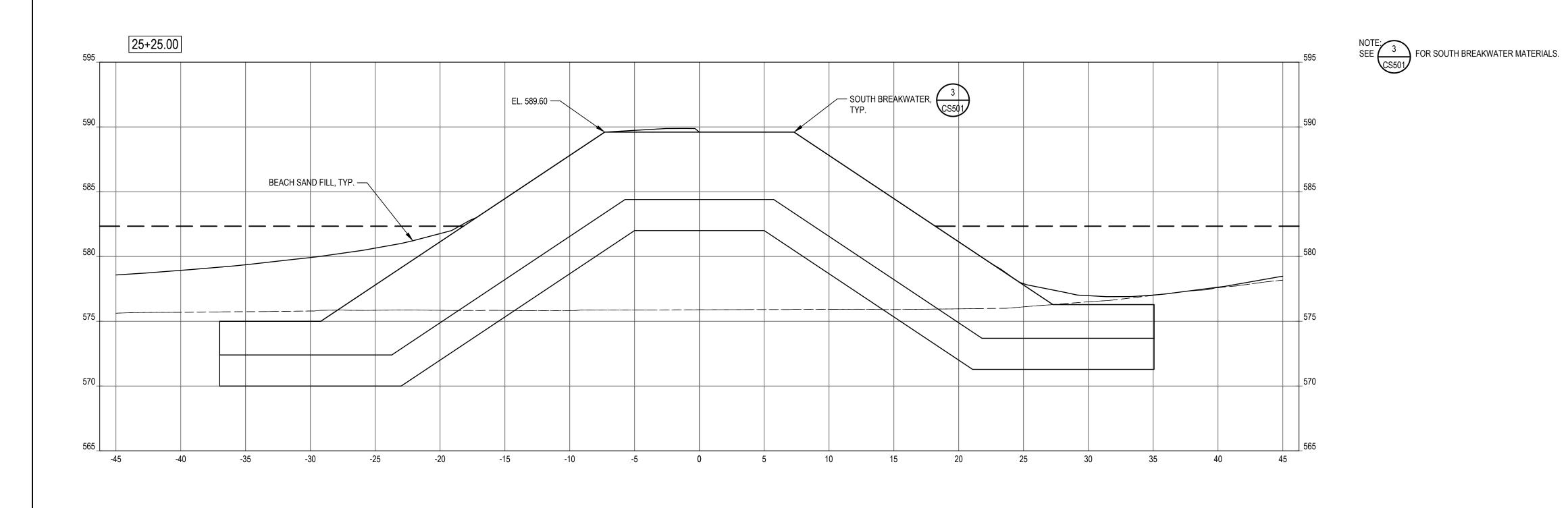
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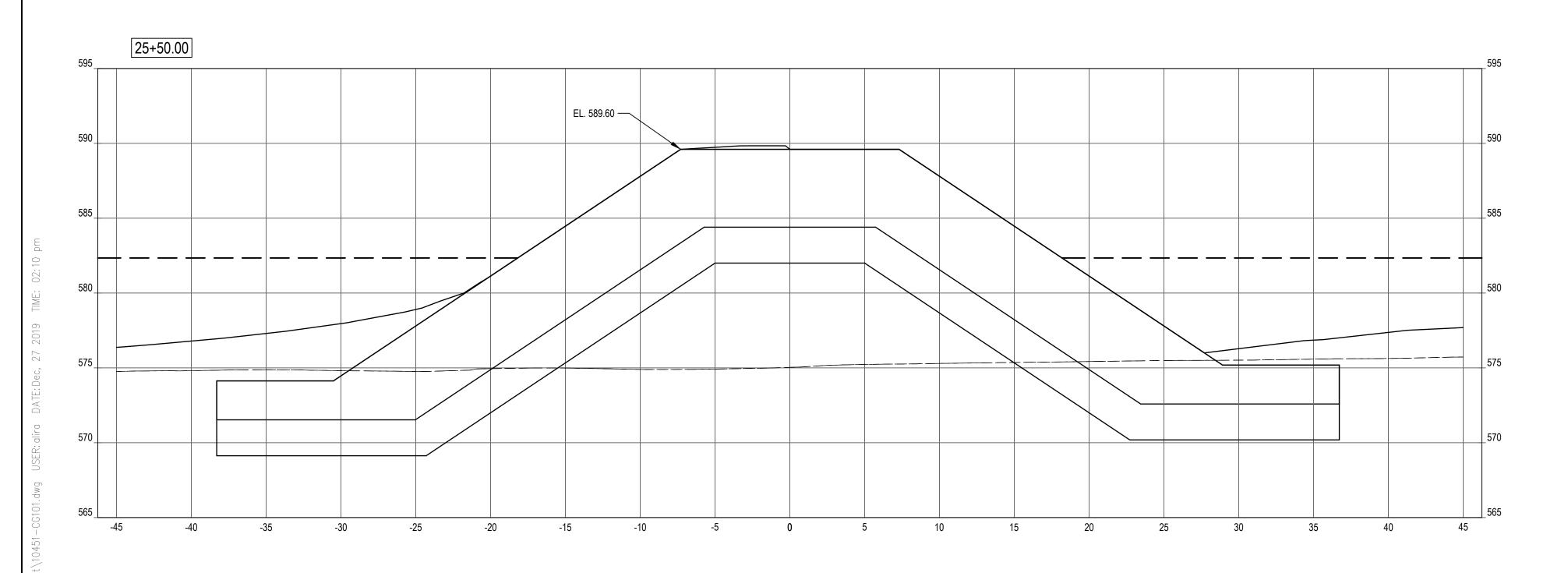
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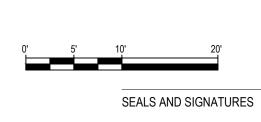
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SOUTH BREAKWATER CROSS SECTIONS CG114









12/13/2019

PROJECT: P560-17630

SITE NO: **639**

BUILDING NO:

LO AND GIONATURES

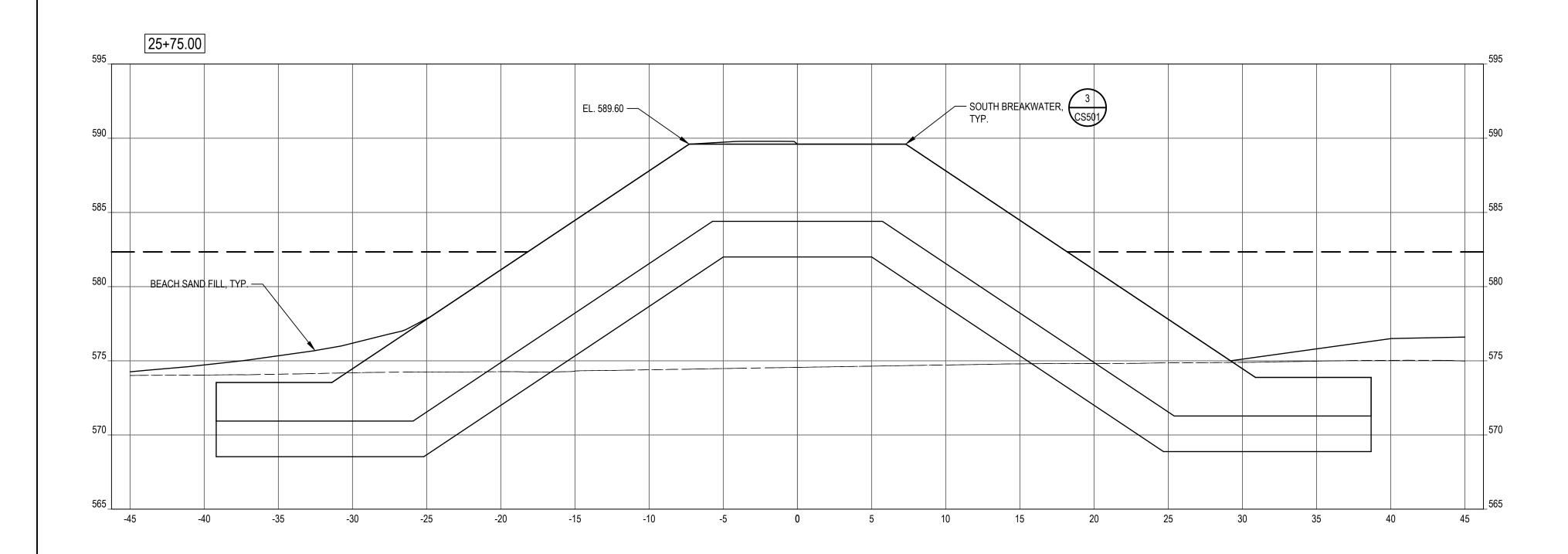
SEALS AND SIGNATURES

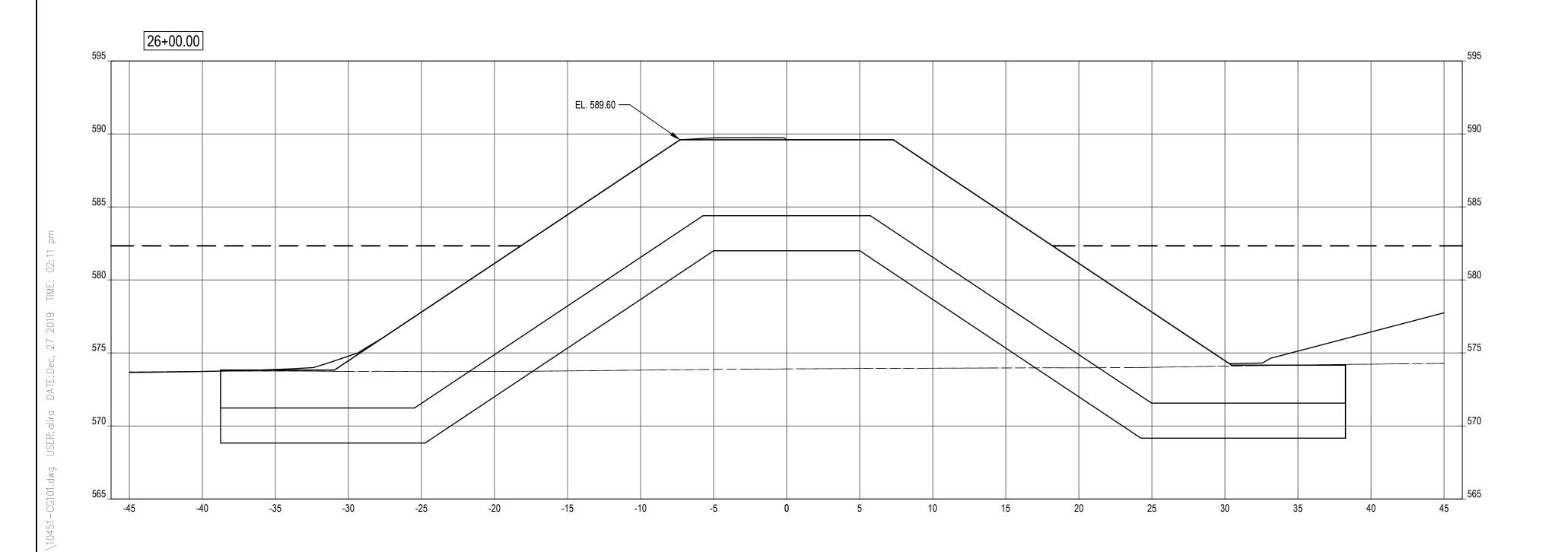


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Sounty Dept. of Administrative Services FACILITIES MANAGEMENT DIVISION , Engineering & Environmental Services wisconsin Avenue, suite 1000 MILWAUKEE, WI 53203

12/13/2019

PROJECT: P560-17630

SITE NO: **639**

BUILDING NO:

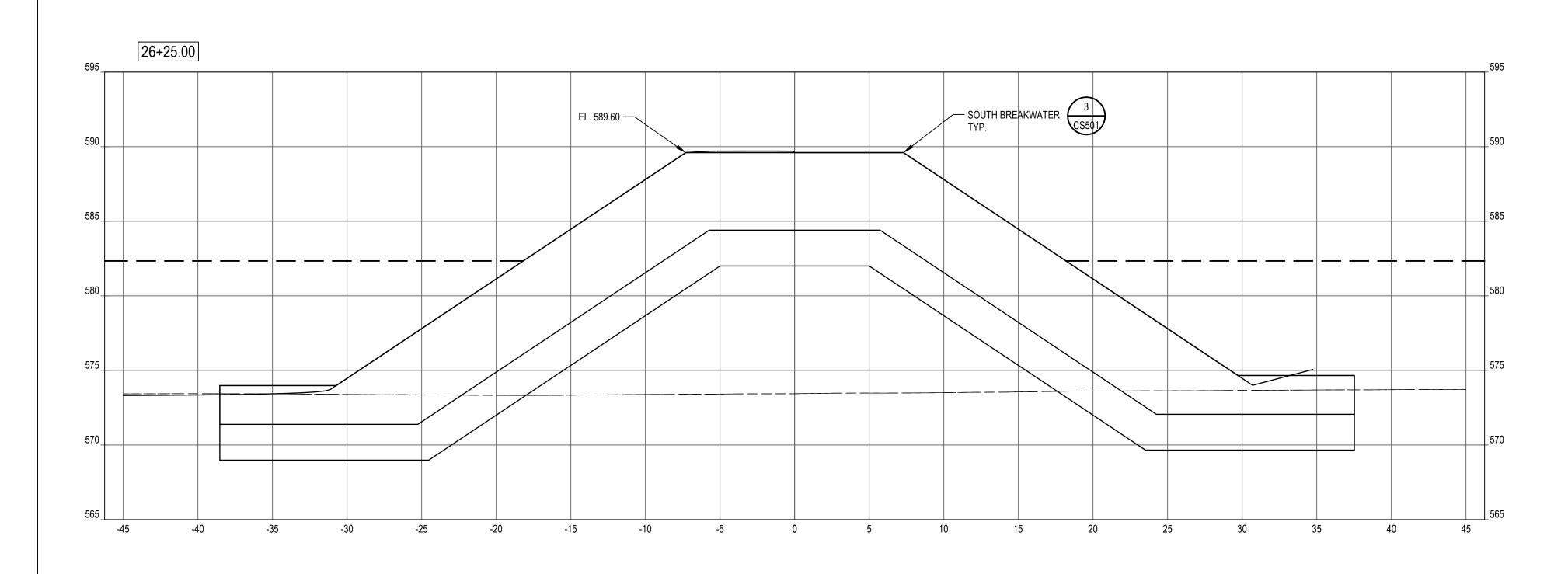
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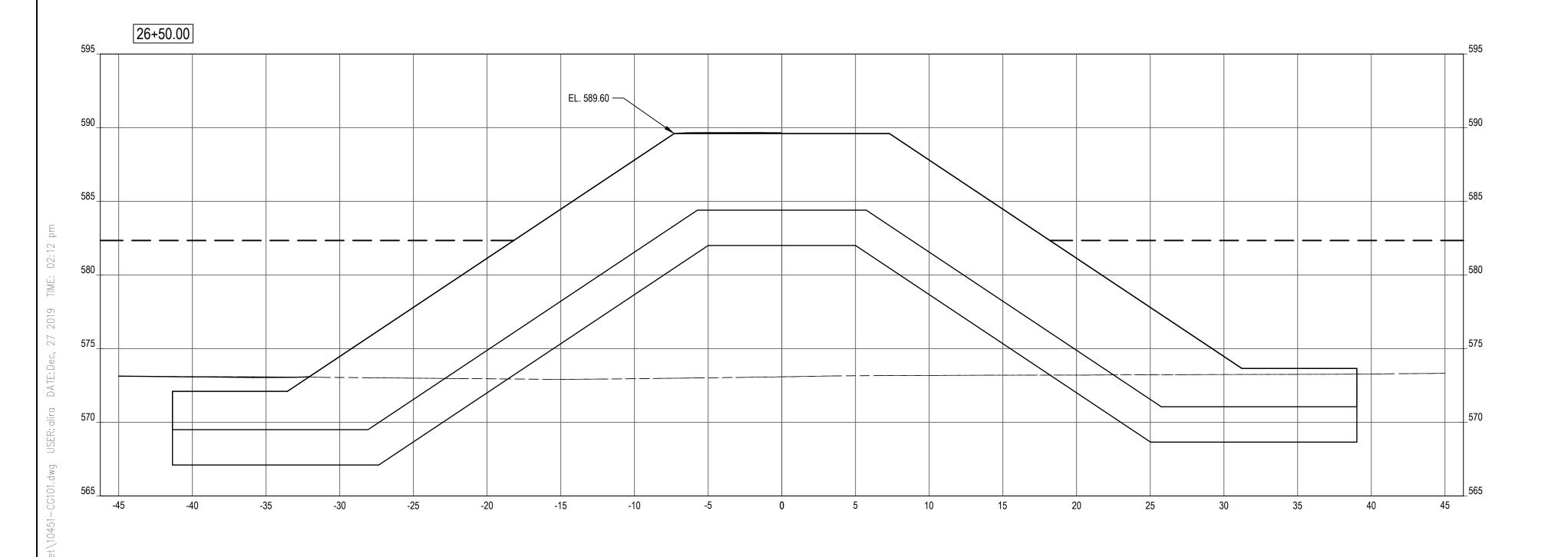
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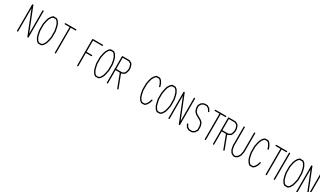


PROJECT: P560-17630

> SITE NO: 639

BUILDING NO:

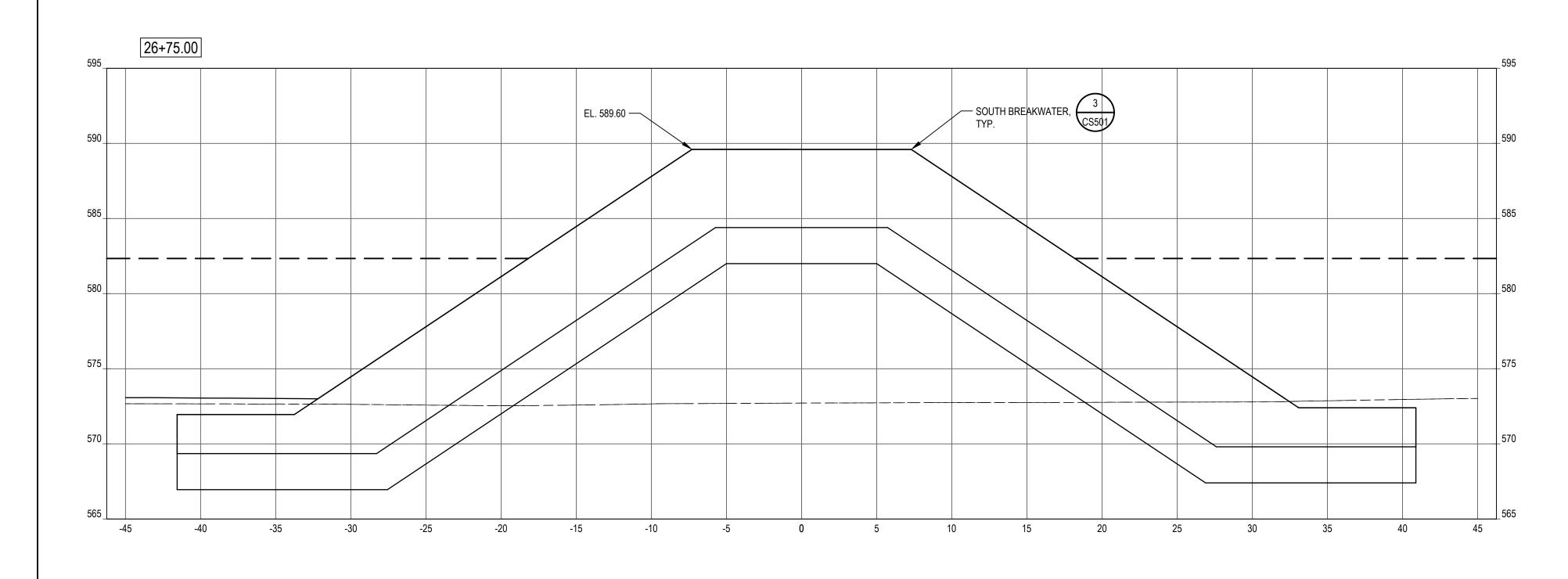
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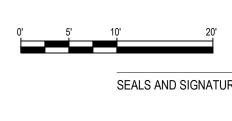


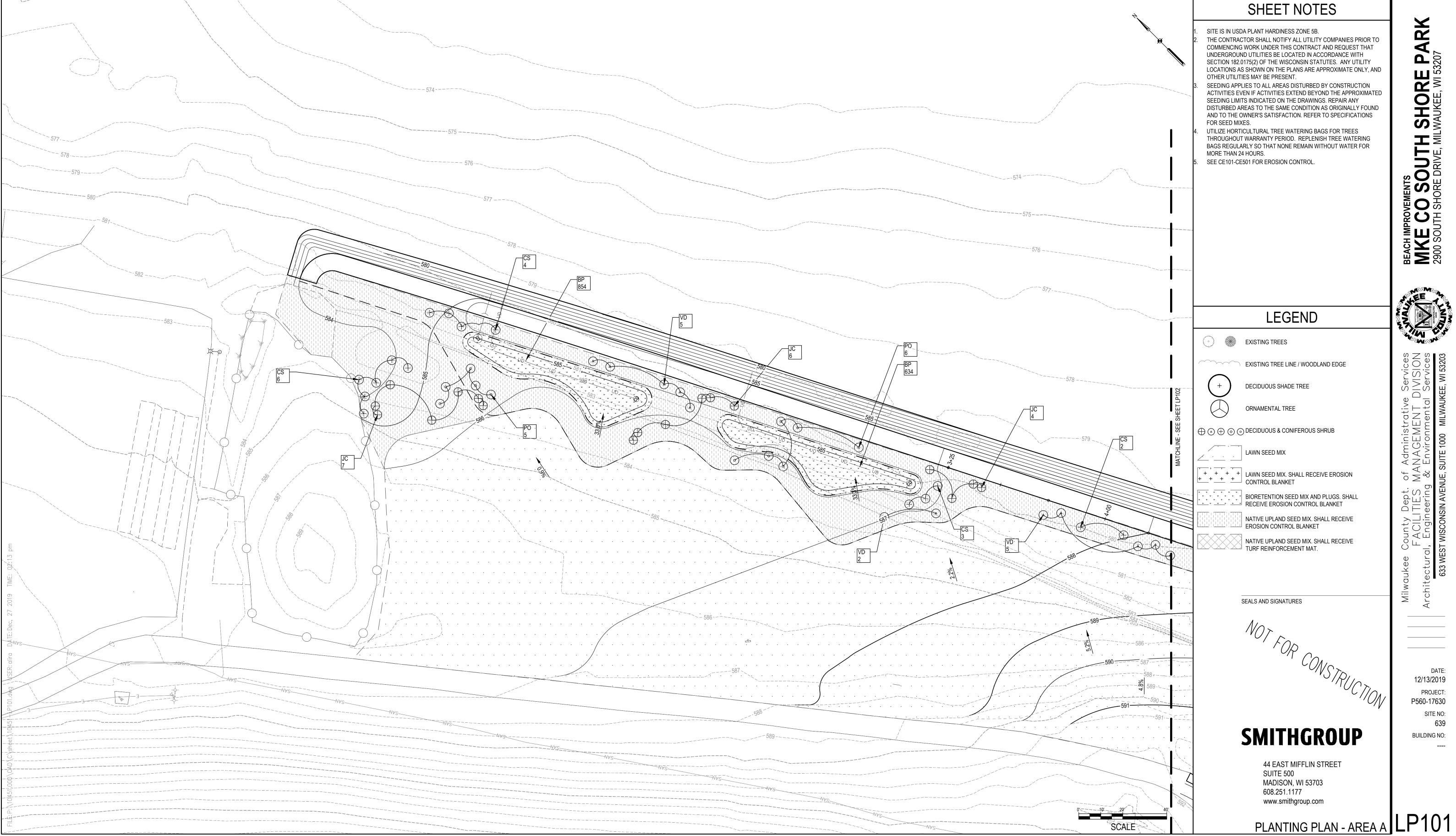
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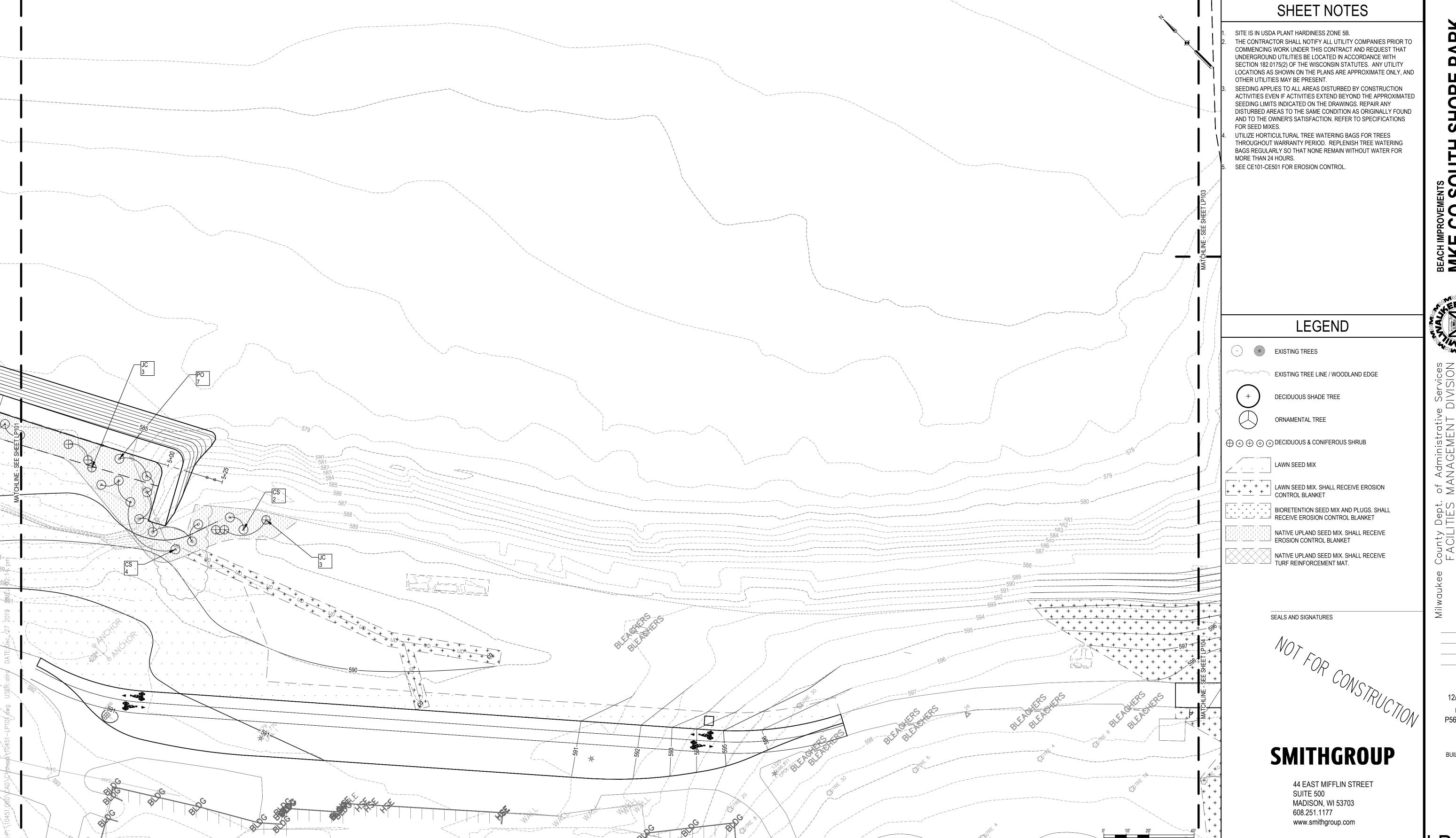
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PROJECT: BUILDING NO:



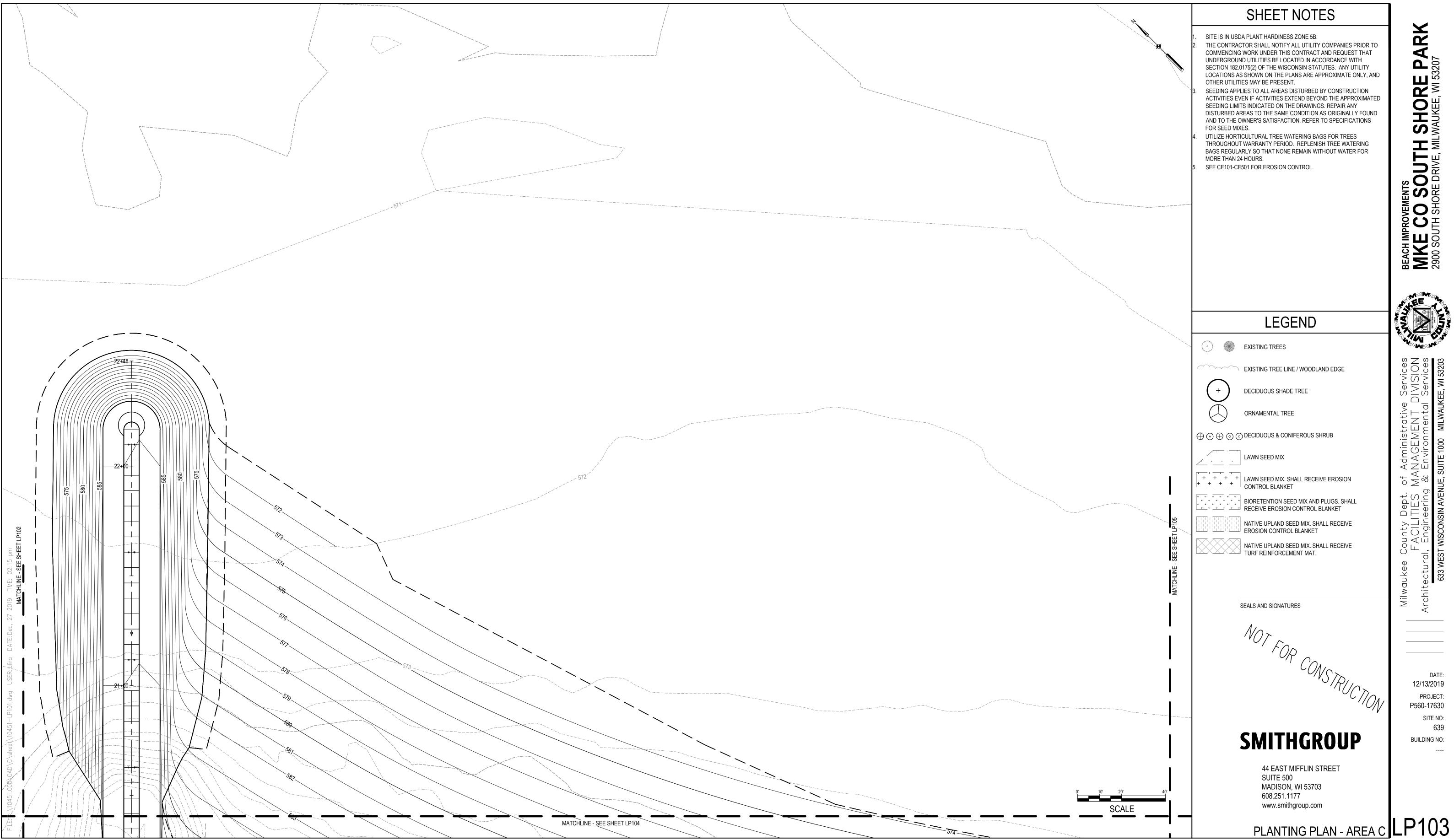
MKE CO SOUTH SHORE DRIVE, MILWAUKEE, WI 53207

of Administrative Services MANAGEMENT DIVISION g & Environmental Services NUE, SUITE 1000 MILWAUKEE, WI 53203

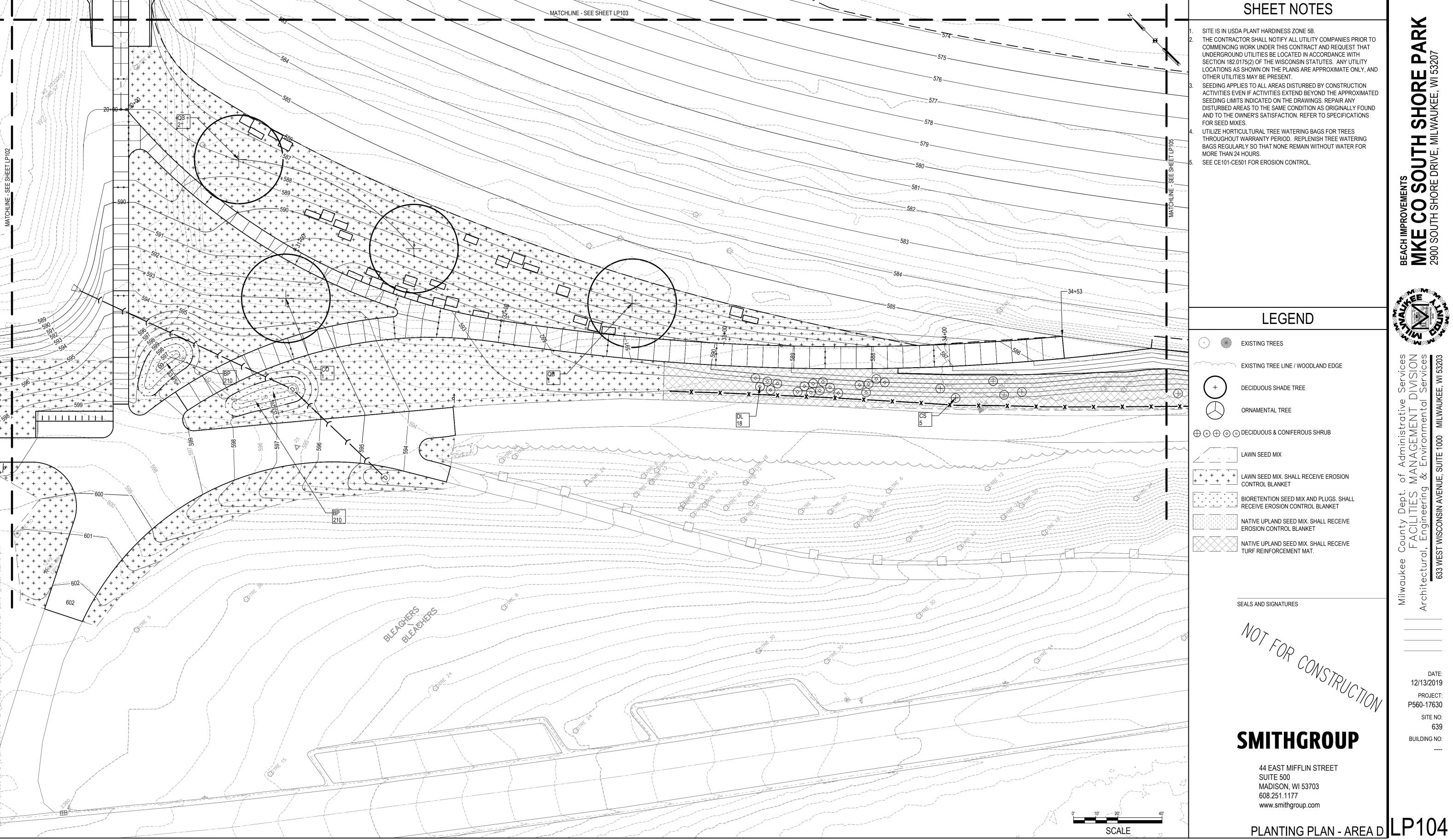
12/13/2019 PROJECT: P560-17630 SITE NO: 639 BUILDING NO:

PLANTING PLAN - AREA B LP102

SCALE



PROJECT: P560-17630 SITE NO: 639 BUILDING NO:

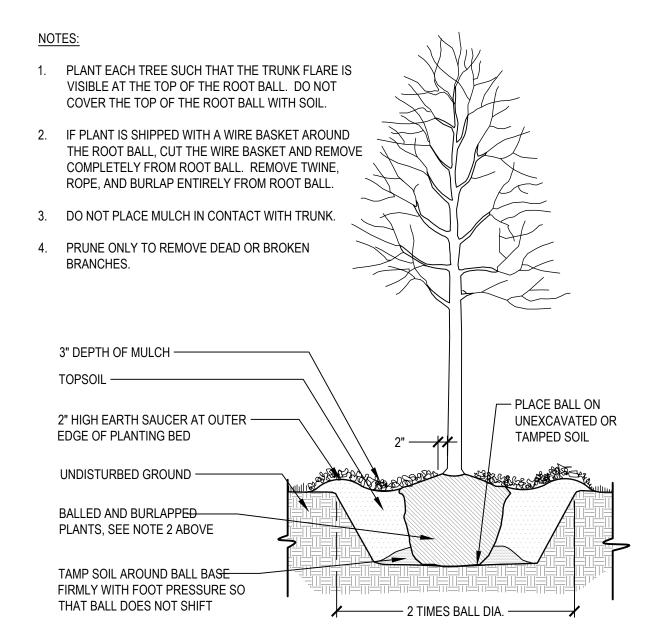


12/13/2019 PROJECT: P560-17630 SITE NO: 639

MKE CO SOUTH SHORE PARK 2900 SOUTH SHORE DRIVE, MILWAUKEE, WI 53207

12/13/2019 PROJECT: P560-17630 SITE NO: 639 BUILDING NO:

LANDSCAPE DETAILS LP501



D=DIMENSION OF PLANT SPACING AS INDICATED ON PLANT LIST, PLAN - DO NOT DAMAGE SPROUTED ENDS - BIORETENTION SOIL MIX - PLUG (SEE PLANT LIST)

1. INSTALL ALL AQUATIC PLANTS FIRMLY INTO THE SOIL.

2. PLANT EACH PLUG INTO THE SOIL UP TO THE SHOOT COLLAR OF THE PLANT. DO NOT BURY THE ENTIRE PLANT OR DAMAGE SPROUTED VEGETATION.

BIOSWALE PLUG PLANTING

SCALE: NTS

SET CROWN OF BALL AT — FINISHED GRADE 2" DEEP MULCH. DO NOT — COVER ROOT FLARE PLANTING BACKFILL. — SCARIFY SIDES OF PLANT PIT. CONTAINER SHRUBS — SCARIFY TO 4" DEPTH AND -RECOMPACT. DEPTH AS REQUIRED SUBGRADE -

NOTES:

• REMOVE POTS AND SEPARATE POT BOUND ROOTS AS SPECIFIED.

DO NOT PRUNE

• MULCH SAUCERS SHALL BE A MIN. 3'-0" DIAMETER OR AS SHOWN ON PLANS

SHRUB PLANTING

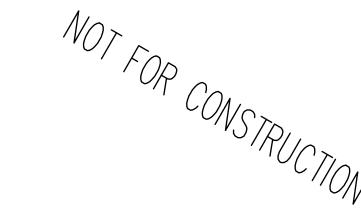
SCALE: 1/2" = 1'-0"

DECIDUOUS TREE PLANTING

SCALE: 1/2" = 1'-0"

LABEL	SCIENTIFIC NAME	COMMON NAME	QTY.	COND.	SIZE	SPACING	COMMENTS
	CANOPY TREES						
СО	Celtis occidentalis	Hackberry	1	B&B	3.5" Cal.	Space as shown	
QB	Quercus bicolor	Swamp White Oak	3	B&B	3.5" Cal.	Space as shown	
	DECIDUOUS AND EVERGREEN SHRUBS						
cs	Cornus sericea	Red Osier Dogwood	29	Container	#5	Space as shown	
DL	Diervilla lonicera	Dwarf Bush Honeysuckle	35	Container	#3	Space as shown	
JC	Juniperus communis var. depressa	Oldfield Common Juniper	23	Container	#5	Space as shown	
РО	Physocarpus opulifolius	Common Ninebark	18	Container	#5	Space as shown	
VD	Viburnum dentatum	Arrowwood Viburnum	12	Container	#5	Space as shown	
ВР	BIOSWALE PLUGS						
	Anemone canadensis	Canada Anemone	84	Round Tapered Plug	2" Diam. X 5" Depth	18" O.C.	
	Asclepias incarnata	Swamp Milkweed	84	Round Tapered Plug	2" Diam. X 5" Depth	18" O.C.	
	Aster novae-angliae	New England Aster	84	Round Tapered Plug	2" Diam. X 5" Depth	18" O.C.	Plugs Shall Be Planted in Groups of 20-30 Plants of the Same Species at 18" O.C. within seeded bioswale areas
	Aster puniceus	Bristly Aster	84	Round Tapered Plug	2" Diam. X 5" Depth	18" O.C.	
	Carex bebbii	Bebb's Oval Sedge	192	Round Tapered Plug	2" Diam. X 5" Depth	18" O.C.	
	Carex cristatella	Crested Oval Sedge	192	Round Tapered Plug	2" Diam. X 5" Depth	18" O.C.	
	Carex vulpinoidea	Brown Fox Sedge	192	Round Tapered Plug	2" Diam. X 5" Depth	18" O.C.	
	Eleocharis acicularis	Great Spike Rush	192	Round Tapered Plug	2" Diam. X 5" Depth	18" O.C.	
	Glyceria striata	Fowl Manna Grass	192	Round Tapered Plug	2" Diam. X 5" Depth	18" O.C.	
	Helenium autumnale	Sneezeweed	84	Round Tapered Plug	2" Diam. X 5" Depth	18" O.C.	
	Liatris pycnostachya	Blazing Star	84	Round Tapered Plug	2" Diam. X 5" Depth	18" O.C.	
	Panicum virgatum	Switchgrass	192	Round Tapered Plug	2" Diam. X 5" Depth	18" O.C.	
	Pycnanthemum virginianum	Mountain Mint	84	Round Tapered Plug	2" Diam. X 5" Depth	18" O.C.	
	Rudbeckia hirta	Black-Eyed Susan	84	Round Tapered Plug	2" Diam. X 5" Depth	18" O.C.	
	Rudbeckia subtomentosa	Brown-Eyed Susan	84	Round Tapered Plug	2" Diam. X 5" Depth	18" O.C.	
	SEED						
	Lawn Seed Mix		8400 sy	N/A	N/A	See Specification	
	Bioswale Seed Mix		415 sy	N/A	N/A	See Specification	
	Native Upland Seed Mix		1500 sy	N/A	N/A	See Specification	

SEALS AND SIGNATURES



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